

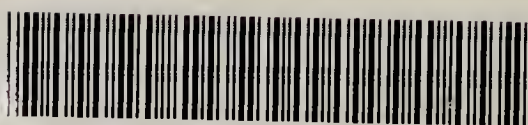
SIXTH TRIENNIAL REPORT
OF
VACCINATION IN BENGAL
DURING THE YEARS
1902-1903, 1903-1904 AND 1904-1905.

BY
W. W. CLEMESHA M.D. D.P.H., CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner for Bengal.

Calcutta:
THE BENGAL SECRETARIAT BOOK DEPÔT.
1905.

[*Price—Indian, Re. 1; English, 1s. 6d.*]

220012
WRAEY
+
1 200
QW28
JI4
B46
1902-1905



22501899862

SIXTH TRIENNIAL REPORT

OF

VACCINATION IN BENGAL

DURING THE YEARS

1902-1903, 1903-1904 AND 1904-1905.

BY

W. W. CLEMESHA, M.D., D.P.H., CAPTAIN, I.M.S.

Offg. Sanitary Commissioner for Bengal.

Calcutta:

THE BENGAL SECRETARIAT BOOK DEPÔT.

1905.



Published at the BENGAL SECRETARIAT BOOK DEPÔT,
Writers' Buildings, Calcutta.

OFFICIAL AGENTS.

In India—

MESSRS. THACKER, SPINK & Co., Calcutta and Simla.
MESSRS. NEWMAN & Co., Calcutta.
MESSRS. HIGGINBOTHAM & Co., Madras.
MESSRS. THACKER & Co., LD., Bombay.
MESSRS. A. J. COMBRIDGE & Co., Bombay.
THE SUPERINTENDENT, AMERICAN BAPTIST MISSION PRESS, Rangoon.
MRS. RADHABAI ATMARAM SAGOON, Bombay.
MESSRS. R. CAMBRAY & Co., Calcutta.
RAI SAHIB M. GULAB SINGH & SONS, Proprietors of the Mufid-i-am Press,
Lahore, Punjab.
MESSRS. S. K. LAHIRI & Co., Printers and Book-sellers, College Street,
Calcutta.
MESSRS. V. KALYANARAMA IYER & Co., Book-sellers, &c., Madras.
MESSRS. D. B. TARAPOREVALA, SONS & Co., Book-sellers, Bombay.
MESSRS. G. A. NATESON & Co., Madras.
MR. N. B. MATHUR, Superintendent, Nazair Kanum Hind Press, Allahabad.
THE CALCUTTA SCHOOL BOOK SOCIETY.

In England—

MR. E. A. ARNOLD, 41 and 43 Maddox Street, Bond Street, London, W.
MESSRS. CONSTABLE & Co., 16 James Street, Haymarket, London, W.
MESSRS. KEGAN PAUL, TRENCH, TRÜBNER & Co., Charing Cross Road,
London.
MR. B. ALFRED QUARITCH, 15 Piccadilly, London.
MESSRS. P. S. KING & SON, 2 & 4 Great Smith Street, Westminster, London.
MESSRS. H. S. KING & Co., 65 Cornhill, London.
MR. B. H. BLACKWELL, 50-51 Broad Street, Oxford.
MESSRS. DEIGHTON BELL & Co., Cambridge.

On the Continent—

MESSRS. R. FRIEDLÄNDER & SOHN, Berlin, N. W. Carlstrasse, 11.
MR. OTTO HARRASSOWITZ, Leipzig.
MR. KARL HIERSEMANN, Leipzig.
MR. ERNEST LEROUX, 28 Rue Bonaparte, Paris.
MR. MARTINUS NIJHOFF, The Hague.

[Maximum limit, 10 pages.]

TRIENNIAL REPORT

OF

VACCINATION IN BENGAL

FOR THE YEARS

1902-1903, 1903-1904, AND 1904-1905.

This report deals with the triennial period 1902-1903 to 1904-1905. Major H. J. Dyson, I.M.S., was in charge of the Department from 1st April to 30th June 1902, Captain (now Major) B. H. Deare, I.M.S., from 4th August 1902 to 10th March 1903, Major F. C. Clarkson, I.M.S., from 11th March 1903 to 15th March 1905, and Captain W. Clemesha, I.M.S., from 1st July to 3rd August 1902 and again from 16th to 31st March 1905.

2. In the Metropolitan circle, there was no Deputy Sanitary Commissioner from 1st April to 21st May 1902, from 30th April to 8th May 1903, from 5th August to 30th August 1903, and from 16th to 31st March 1905. The Northern Bengal Circle was also without a Deputy Sanitary Commissioner from 1st July to 3rd August 1902, and from 5th to 16th September 1903.

3. In Calcutta the average number of Inspecting officers and operators was 7 and 28 against 8 and 31, respectively, of 1899—1902. In Provincial rural areas and mufassal municipalities and dispensaries, etc., the inspecting staff and operators, including apprentices, numbered 253 and 3,460 and 10 and 207, respectively, against 247 and 3,465 and 10 and 236, respectively, of the previous triennial period.

4. The total number of operations performed in the Province during the past year was 2,897,907, of which 2,798,006 were primary and 99,901 revaccination against 2,748,638 with 2,634,563 primary and 114,075 revaccination of 1903-1904, and 2,781,972 with 2,592,177 primary and 1,89,795 revaccination of 1902-1903. The average of the triennial period under review was 2,809,506 with 2,674,916 primary and 134,590 revaccination against 2,420,552 with 2,320,568 primary and 99,984 revaccination of 1899—1902. There was thus an average increase of 388,954 cases, there having been an increase of 3,54,348 in primary cases and 34,606 in revaccination. Although there was a satisfactory increase of operations in the Province as a whole, the period under review shews an average decrease of 4,624 cases in mufassil municipalities, dispensaries, etc., and 7,896 in the town of Calcutta, as compared with the previous triennial period 1899—1902. The decrease in Calcutta is specially noticeable. It is due to the larger number of vaccinations performed during 1900-1901 owing to a severe outbreak of small-pox in the town.

The ratio of success under the two different heads, Primary and Revaccination, excluding the cases in which the results were not known, was 98·79 and 68·73 against 98·46 and 65·36, respectively, of 1899—1902. The average work of a vaccinator was 978 against 777 of the previous triennial period. The average work of a licensed and paid vaccinator was 1,003 and 798 against 788 and 697, respectively, of 1899—1902.

Out of the 49 districts of Bengal, including the Tributary States of Orissa and Chota Nagpur, there was an increase of operations in 29 and a decrease

in 20 districts during the past year. The increase is most striking in the following districts:—

Midnapore	...	...	...	35,325
Cuttack	...	...	...	28,702
Balasore	...	...	...	19,894
Noakhali	...	...	...	19,865
Chittagong	...	...	...	14,286
Tributary States of Orissa	...	...	...	12,097
Bankura	...	...	...	10,301
Birbhum	...	...	...	9,634

The decrease is specially noticeable in the districts of Puri 11,029, Rangpur 9,822, and Shahabad 9,210. An explanation of this is given below. The cause of decrease in the Political States of Chota Nagpur 4,901, Rajshahi 3,962, Pabna 3,446, Saran 3,247, Sonthal Parganas 3,155, Darbhanga 2,875, Jessore 2,421, Palamau 1,993, Bogra 1,985 and Jalpaiguri 1,953 is also given.

In Puri it is said to be principally due to (1) the negligence of the District Inspector and the Sadar Sub-Inspector who have already been punished; and (2) to the greater accuracy of the figures.

In Rangpur it is ascribed to the unusual prevalence of malaria in the district during the first 3 months of the season, and also to the sickness of some of the vaccinators.

The decrease in Shahabad, Saran and Darbhanga is said to be due to the greater prevalence of plague in those districts during the past year; while in Rajshahi, Pabna, Jessore, Jalpaiguri and Bogra it is ascribed, either to the prevalence of malaria, cholera, etc., or to the sickness among the staff.

In the Political States of Chota Nagpur and Sonthal Parganas the decrease occurred in revaccination, owing to less prevalence of small-pox outbreaks.

A similar explanation applies to Palamau, where the decrease was chiefly in revaccination.

As regards increase, which is most marked in the Districts of Midnapore, Cuttack, Noakhali and Balasore, the Civil Surgeons of the first three report it to be due to the active co-operation of the District Officers, while the Civil Surgeon of Balasore attributes it to the re-introduction of the arm-to-arm vaccination which had been practically stopped for some years. In Chittagong and Birbhum the increase is mainly due to work in connection with the stamping out of small-pox outbreaks. The Civil Surgeon of Bankura ascribes it to the district having been more healthy. In the Tributary States of Orissa, it was due, I think, to the systematic inspection of vaccination by the Deputy Sanitary Commissioner, Captain Robertson Milne, I.M.S.

The causes that bring about fluctuation in the district returns year by year are the following:—

Those that tend to aid vaccination—

- (i) An epidemic of small-pox: this in most districts very much improves the quantity of work; vaccinators, inspectors, executive officers, all bestir themselves, and revaccinations greatly increase. There is almost always a decrease in subsequent years.
- (ii) Improving the inspecting staff of any district, visits of Deputy Sanitary Commissioners, pressure from head-quarters, etc.

Those that tend to hinder vaccination work—

- (i) Epidemics of plague: this is a very important factor, if it is the first epidemic. As the disease reappears regularly at certain times, it affects the work less.
- (ii) Unhealthy years generally,—*vide* this year's figures of Rangpur, Rajshahi, Jessore, etc.
- (iii) Years of scarcity and famine: the 2 anna fee is more of a hardship than usual.
- (iv) Advent of a new Inspector: this seems paradoxical, but it is not at all uncommon to find that a change of staff produces an increase in the actual work of the district, but a falling off in the figures due to the new man putting a stop to the "cooking" of returns by the Sub-Inspectors.

Whilst it is impossible, within the scope of this report, to go into the causes why particular districts are forward or backward, a few instances may be taken.

The old Bhojpuri kingdom, as a whole, is one of the most bitterly opposed to vaccination. Shahabad, parts of Chapra, Ghazipur and Ballia in the United Provinces are all backward districts: on this account vaccination is only done with great difficulty.

Unfortunately plague is now an additional difficulty and has put back the work considerably this year. It is a mistake to compare Arrah with Patna and Gaya, which, as is well known, belonged to a distinct kingdom of Mogadh where vaccination does not meet with as much opposition.

The Ferazie districts of Lower Bengal are probably the most difficult to vaccinate in the whole Province. The fact that Faridpur and Backergunge district figures are on the whole good is simply due to the exceptionally good work of the Inspectors and Civil Surgeons.

Very nearly all the Sadar Subdivisions in Bihar are behind the other parts of the district; the reason is simply that the law is well known, vaccination is optional and opposition is strong.

5. During the year 1904-05, out of 2,678,559, the estimated number of infants under one year available for vaccination, Protection afforded to infants. 1,029,548, that is, 384·36 per thousand were successfully vaccinated, against 359·66 of 1903-04 and 360·51 of 1902-03. This shows that some improvement is gradually being made. A very large majority of the people of Bengal object to have their infant children vaccinated and this, together with the fact that malaria is prevalent during the greater portion of the vaccination season in many parts of the Province, tends to lower the rate of infant protection. Improvement in this respect must be slow. The apathy of the people in the matter of infant vaccination is evident from the figures of Calcutta, the most advanced town of India, which show that only 90 per thousand of the infant population of that town was vaccinated during the past year. The above calculation, however, is based on the estimated birthrate of the Province. If the actual number of births of the town is taken into calculation, the ratio would come up to 255 per thousand only, but this even falls far short of what it should be.

In 12 districts, viz., Ranchi 904, Palamau 775, Malda 768, Faridpur 744, Hazaribagh 682, Political States of Chota Nagpur 653, Bhagalpur 634, Purnea 634, Manbhum 625, Darjeeling 608, Sonthal Parganas 570 and Jalpaiguri 506, the protection was over 500 per mille, while in four districts only, viz., Balasore 199, Tributary States of Orissa 190, Tippera 186, and Puri 83, it was below 200 per mille.

It is interesting to notice that in the districts of Midnapore, Cuttack and Noakhali, where the work as a whole has increased owing to the active help of the district authorities, the rate of infant protection has also increased from 186·10, 146·55 and 170·99 of 1903-04 to 424·07, 218·67 and 403·09, respectively, of 1904-05. There is also a marked improvement noticeable in the district of Faridpur where the rate of successful infant vaccination has increased from 595 of 1903-04 to 744 during the past year. Although I doubt the accuracy of the figures, still I think that some improvement is being made owing to the energy and exertions of the Civil Surgeon and the District Inspector of Vaccination. I mention the case of Faridpur to show what good can be done by energetic inspecting officers. Unfortunately among the subordinate vaccination inspecting staff we have only a very few good men who are really tactful and know how to advance the cause of vaccination. This, apart from local conditions, is also an important factor in determining the progress or retrogression of vaccination work in a district.

The protection afforded to infants in municipalities is shown in Appendix VII attached to the report. It will be seen that 623 per mille of the surviving infant population was protected during the past year against 711 of 1903-04 and 723 of 1902-03. The average of the triennial period under review was 683 against 576 of 1899-1900 to 1901-02. The cause of the excess number of vaccination over the available population in some municipalities as shown in the statement is the same as explained in previous reports. The attention of Civil Surgeons has as usual been drawn to their responsibility in the matter of infant vaccination in towns where the protection is inadequate.

6. During the recess or non-working season of 1904-05, 191,700 operations were performed chiefly in connection with small-pox epidemics and the up-keep of lymph for emergencies, against 193,056 of 1903-04 and 291,460 of 1902-03. The average of the triennial period under review was 225,405, against 144,244 of 1899-1902.

7. During 1904-05, 832,542 successful primary operations were performed in six points, against 733,802 of 1903-04 and 711,221 of 1902-03. The number of revaccinations was 8,337, against 11,653 of 1903-04 and 25,963 of 1902-03. The falling off in revaccinations during the past year is due to the less prevalence of small-pox. When small-pox is prevalent revaccination can be performed, when it is absent it is almost practically impossible. The average of the triennial period in primary and revaccination was 759,188 and 15,318, against 549,432 and 11,316 respectively of the previous epoch. There was an increase of 209,756 successful primary and 4,002 revaccination cases, which shows that this method of vaccination is being gradually and more extensively introduced among the people.

8. During the past year, the total number of primary and revaccinations performed in factories and tea-gardens in Bengal was 9,276 and 210, against 11,034 and 879 respectively of 1903-04 and 10,071 and 1,192 respectively of 1902-03. The ratio of success in primary and revaccination cases was 98·72 and 45·23, against 99·07, 35·49 and 95·99 and 49·24 respectively of 1903-04 and 1902-03.

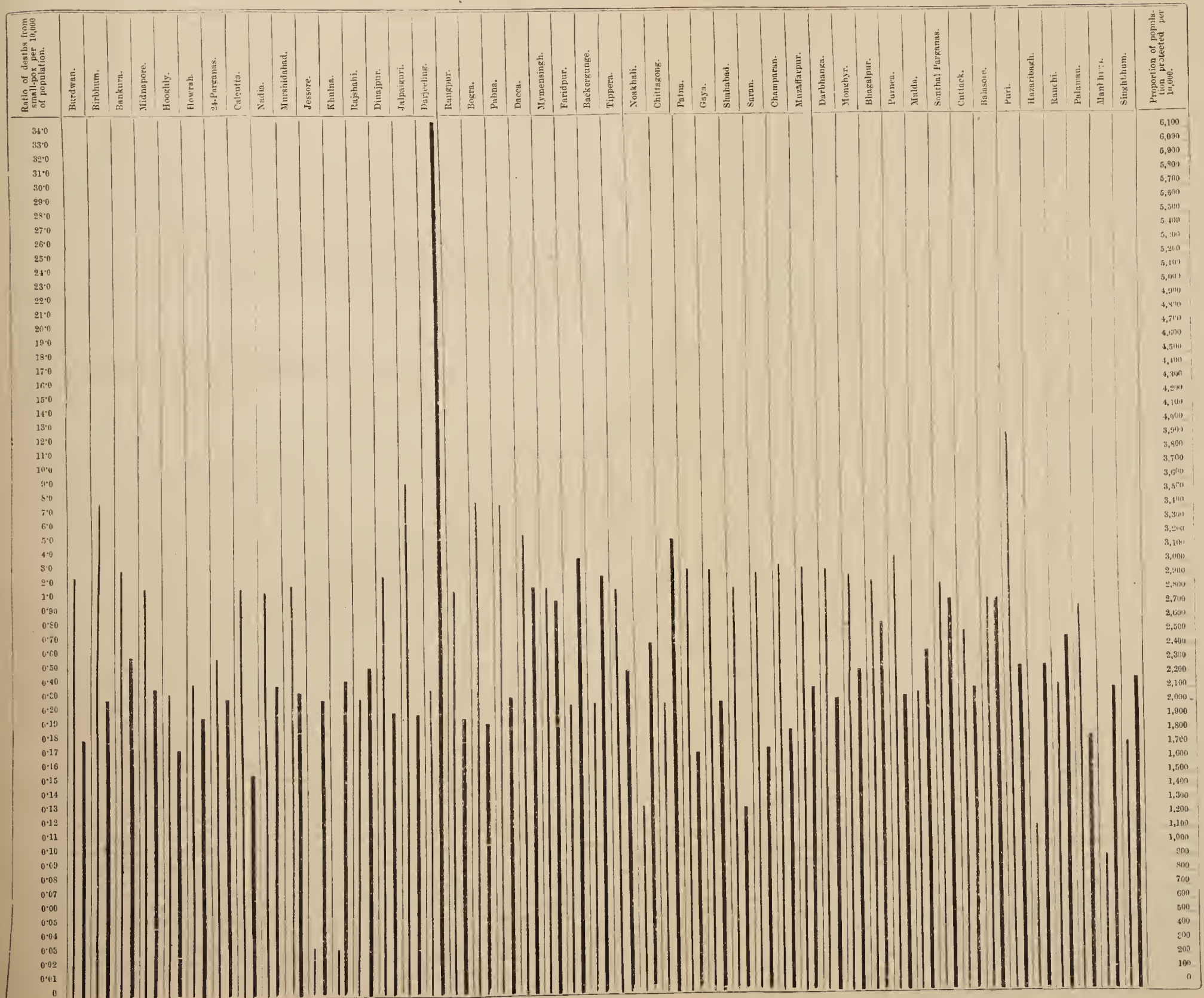
9. The total average cost of vaccination in Bengal for the triennial period under review was Rs. 1,97,642, excluding the expenditure of the Calcutta Municipality for the year 1904-05, for which figures has not yet been received, against Rs. 1,86,782 of 1899-1902, the cost of each successful vaccination being 1 anna 2 pie, against 1 anna 3 pie.

Out of the total average cost of vaccination as shown above, Rs. 4,713 were contributed by District Boards, Rs. 4,004 by Native States, and Rs. 212 from other sources, against Rs. 4,188, Rs. 2,399 and Rs. 292 respectively of the previous triennial period 1899-1902.

Diagram illustrating death-rate from small-pox, and degree of protection afforded.

10. The following diagram illustrates the death-rates from small-pox in each district with side by side the proportion of population protected against the disease by vaccination during the past seven years :—

1898—1905.



NOTE.—Thin lines indicate the death-rates from small-pox.
Thick lines indicate the proportion of population protected by vaccination.

It is extremely difficult to draw any useful conclusions from this diagram, because there is in the best vaccinated district quite sufficient susceptible material to keep an epidemic of small-pox alive. In this country it is usually the adults amongst whom the greatest number of deaths from small-pox occur and who keep the disease alive. Twenty-five years ago vaccination of children was not as good as it is now, consequently the number of unvaccinated adults of about 25 years of age is much greater than the number of unvaccinated children at five years. Also even, if adults have been vaccinated as children, they may contract the disease themselves, though the chances of recovery are much below if they have been protected in childhood. Small-pox has a sort of periodicity. It usually is more or less prevalent in epidemic form once in five years in any given district. In consequence of an epidemic of the disease, vaccination of many of the susceptible persons is carried out and the disease disappears and remains quiet for some time.

In Northern Bengal, Nepal is a constant source of infection from which the neighbouring districts contract the disease. It is only the fact that the Darjeeling district is very well vaccinated that keeps the small-pox figures as low as they are there.

11. During the past year, the total number of deaths from small-pox in the Province was 14,846, against 26,168 of 1903-04 and 45,742 of 1902-03, the ratio of deaths per 1,000 of the population being .19, against .33 and .58 respectively of 1903-04 and 1902-03. The largest number of deaths was recorded in the districts of Dacca 1,409, Puri 1,218, Pabna 1,021, Darbhanga 771, Muzaffarpur 744, Birbhum 706 and Jalpaiguri 702, whereas the mortality was lowest in the districts of Khulna 4, Jessore 7, Darjeeling 8, Singhbhum 11, Hazaribagh 12, Manbhum 13, and Noakhali 15.

It will be seen from statement No. VI attached to this report that there has been a diminution in the death-rate in a large majority of the districts of Bengal as compared with the previous year.

In accordance with the orders contained in paragraph 9 of the Government Resolution on the Annual Vaccination Report of this Department for the year 1902-03, statistics were obtained from Civil Surgeons showing the number of persons protected or unprotected among those who died from small-pox during the past year. Out of 14,846 deaths, statistics have been furnished of 11,763 which show that 4,662 were protected by vaccination and 5,873 were unprotected and 1,228 not ascertained. The figures, however, are so unreliable that no conclusion can be based on them.

12. In the Animal Vaccination Depôts at Calcutta and Darjeeling, the average number of calves vaccinated was 795 and 223 respectively, against 427 and 194 respectively of the previous triennial period. The average quantity of lanoline paste in grains manufactured was 127,243 and 50,245 respectively, against 66,319 and 53,903 respectively of 1899-1902.

It will be seen that the work of the Calcutta Animal Vaccination Depôt has increased nearly twofold. The demand on it is increasing every year. The depôt at Elliot Road was too small to be able to meet the continual increased requisitions for lymph; it was therefore removed to a more commodious building at Entally in April 1905, and arrangements are being made for manufacturing larger quantities of lymph to meet all present demands and to send the fresh paste direct to the vaccinators instead of through Civil Surgeons and Inspectors and Sub-Inspectors as before, thus minimising the chance of deterioration of the quality of the lymph supplied.

13. During the past year, 216,520 primary vaccinations were performed with lymph taken direct from the calf, 421,157 with lanoline lymph, and 2,160,329 by the arm-to-arm process, against 212,537, 415,310 and 2,006,716 respectively of 1903-04 and 214,764, 399,205 and 1,978,208 respectively of 1902-03. The ratio per cent. of success under each of these methods of vaccination was 99.11, 95.51 and 98.57 respectively, against 98.83, 97.01 and 98.35 respectively of 1903-04 and 98.13, 96.75 and 98.38 of 1902-03. The number of revaccinations under each of these processes of vaccination was 21,926, 37,718 and 40,257 with a success of 68.84, 51.79 and 58.49 per cent. respectively, against 26,001, 31,841 and 56,233 with a success of 65.89, 65.87 and 66.94 per cent. respectively of 1903-04 and 50,429, 39,992 and 99,374 with a success of 74.04, 62.20 and 67.40 per cent. respectively of 1902-03.

14. In accordance with the orders contained in Government order No. 929T.M., dated the 28th May 1904, antiseptic vaccination was introduced during the last working season in the districts of Burdwan, Howrah, 24-Parganas, Dacca and Murshida-

bad and in the municipal areas of the districts of Patna, Bhagalpur, Hazaribagh and Cuttack. In Rajshahi the system, it is stated, was not introduced owing to three changes of Civil Surgeons during the vaccination working season and in the district of Muzaffarpur, it was tried only in the town of Muzaffarpur. The Civil Surgeons concerned report that selected vaccinators were employed in the work and that practical instructions as to the use of the new method were given them before they commenced work. The result is reported to be satisfactory. In Hazaribagh the experiments were carried on under the directions and personal supervision of the Civil Surgeon, Captain Newman, I.M.S., who has shown by facts and figures the superiority of the antiseptic method of vaccination over the ordinary method. His report is very interesting, and I am submitting it to Government separately with my remarks.

15. One hundred and ninety grains of lymph were supplied from the Animal Vaccination Depôt, Darjeeling, to the Nepal Durbar and Sikkim. Five hundred and thirty grains were also supplied to the Sikkim State. The results are reported to have been satisfactory.

16. During the past year the Deputy Sanitary Commissioners of the Metropolitan and Eastern Bengal, Northern and Western Circles, inspected each 5,119, 17,855 and 7,498 cases respectively. The percentage of success in primary and revaccination cases inspected by them was 98.59 and 75.87 respectively.

Among Civil Surgeons two only, viz., Pabna and Champaran, inspected over 10,000 operations; 13 between 5,000 to 10,000; 19 between 2,000 and 5,000; 6 between 1,000 and 2,000, and 8 less than 1,000. The percentage of success in primary and revaccination cases inspected by them was 97.86 and 61.93 respectively.

Of the subordinate inspecting staff, 22 District Inspectors of Vaccination inspected more than 50 per cent. of the primary operations in their respective charges; 9 between 40 and 50 per cent., and 18 between 20 and 40 per cent.

In 15 districts, the Sub Inspectors of Vaccination inspected more than 80 per cent. of the primary operations performed in their jurisdictions; in 26 districts between 50 and 80 per cent., and in 9 only below 50 per cent.

The percentage of success reported by the Inspectors and Sub-Inspectors of Vaccination was 97.71 and 97.37 respectively in primary cases, and 53.60 and 54.09 in re-vaccination, the success reported by the vaccinators in the returns being 98.15 and 58.23 respectively under the above heads.

Suitable notice has as usual been taken departmentally of the inadequate inspections performed by the subordinate inspecting staff.

17. The question of the re-organization of the Vaccination Department is still under the consideration of Government, hence very little need be said on the subject of changes. To my mind the change that is most needed on the score of economy is a reduction in the number of Sub-Inspectors. Many of these men are useless, lazy to an almost incredible degree and are completely out of touch with the Civil Surgeons.

Rewards for good work are being distributed for the first time this year, and it is hoped will act as a stimulus to further exertions on the part of the vaccinators.

It is not so much radical change of system that is required in this Department, as carefully thought-out gradual improvement. The great imperfections under which we labour are (i) want of education of vaccinators and inspecting officers; (ii) the lack of inducements for vaccinators to improve their work or their knowledge of English; (iii) the enormous preponderance of arm-to-arm vaccination over other methods.

These three are the greatest defects that exist at present, and it is very desirable that steps be taken to remedy them. Following on these, aseptic method of vaccination can be taught to the vaccinators and introduced throughout the Province, but it is futile to expect the average vaccinator left to himself either to understand or carry out more scientific methods. These points have been brought to the notice of Government in separate notes.

Another point that requires considerable attention is the systematizing of the work of vaccinators in municipal towns; at present in many places nothing like all the available children are vaccinated. This is simply a matter of organization, and great improvements should be made in a comparatively short time.

CALCUTTA,
The 29th May, 1905.

W. W. CLEMESHA, M.D., D.P.H., CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner, Bengal.

STATISTICAL RETURNS.

STATEMENT No. I—Showing particulars of Vaccination in the

Number.	DISTRICT.	POPULATION.	Average population per square mile.	AVERAGE NUMBER OF VACCINATORS EMPLOYED THROUGHOUT THE YEAR.		TOTAL NUMBER OF PERSONS VACCINATED (INCLUDING THOSE VACCINATED BY APPRENTICES.)				Average number of persons vaccinated by each vaccinator [6c minus 6d) divided by 6a].	PRIMARY VACCINATION				
				a	b	a	b	Male.	Female.		Total.	Total number of persons actually vaccinated by apprentices.	Total.	Under one year.	One year and under six years.
1	2	3	4	5	6				7	8	9	10			
Burdwan Division.															
1	Burdwan	{ Paid by District Board Licensed ... }	1,445,747	543	{ 2 31	...	1,048	795	1,843	...	921	1,341	253	972	
2	Birbhum	{ Paid by District Board Licensed ... }	893,588	511	{ 1 30	...	111	103	214	...	214	207	36	146	
3	Bankura	... ..	1,063,136	408	57	...	26,326	25,236	51,562	...	904	36,459	7,543	22,206
4	Midnapore	... ..	2,699,238	523	89	61	55,835	50,201	106,036	1,395	1,176	43,332	11,882	27,963
5	Hooghly	... ..	915,390	788	33	10	13,498	12,246	25,744	1,290	741	40,720	51,976	12,470
6	Howrah	... ..	668,863	1,345	20	4	10,601	10,210	20,811	...	1,040	8,958	12,470	12,647
	Total of Burdwan Division.	{ Paid by District Board Licensed ... Total ... }	7,685,962	556	{ 3 260 263	...	1,159	898	2,057	...	686	1,548	289	1,118	
						92	150,221	139,662	289,883	3,721	1,100	278,852	98,161	149,409	
						92	151,380	140,560	291,940	3,721	1,096	280,400	98,450	150,527	
Presidency Division.															
7	24-Parganas	... .. Licensed ...	1,680,229	851	58	1	33,223	30,027	63,250	...	1,090	63,250	24,413	34,098
8	Calcutta Bovine Vaccine Depôt—Paid	...	847,796	42,389	{ 2 28	...	3,300	392	3,692	...	1,846	291	114	169	
9	Calcutta	... .. Licensed ...	1,572,136	570	39	13	14,125	10,235	24,360	...	870	20,283	2,711	14,519
10	Nadia	... ..	1,257,277	593	34	18	29,036	27,032	56,068	2,283	1,379	55,273	19,100	33,948
11	Murshidabad	... ..	1,791,856	615	74	34	19,980	19,121	39,101	3,933	1,034	38,486	9,202	27,314
12	Jessore	... ..	1,226,782	597	31	10	26,409	25,057	51,466	3,378	650	51,288	19,408	29,208
	Khulna	... ..					18,956	17,952	36,908	2,969	1,095	36,712	19,353	15,072
	Total of Presidency Division.	{ Paid by Government Licensed ... Total ... }	8,376,076	707	{ 30 236 266	...	17,425	10,627	28,052	...	935	20,574	2,825	14,688	
						76	127,604	119,189	246,793	12,563	992	245,009	91,476	139,640	
						76	145,029	129,816	274,845	12,563	986	265,583	94,301	154,828	
Rajshahi Division.															
13	Rajshahi	... .. Licensed ...	1,432,164	553	36	36	24,681	23,303	47,984	10,301	1,047	47,930	19,565	27,415
14	Dinajpur	... ..	1,553,650	394	33	33	24,002	18,096	42,098	10,045	971	34,319	12,468	20,616
15	Jalpaiguri	... ..	777,672	263	29	19	12,374	11,172	23,546	3,557	689	22,890	13,068	9,301
16	Darjeeling	... .. Paid by Government	227,724	197	{ 10 2	...	7,683	7,327	15,010	...	1,501	12,762	4,875	4,005
	Darjeeling Bovine Vaccine Depôt—Paid by Government.						28	49	77	...	38	77	14	30	
17	Rangpur	... .. Licensed ...	2,138,221	614	57	8	36,561	30,466	67,027	1,509	1,149	62,481	29,925	29,064
18	Bogra	... .. Paid by District Board	843,335	621	{ 5 19	...	1,592	728	2,320	...	464	968	168	618
19	Pabna	... .. Licensed ...	1,378,923	756	{ 19 31	12	11,358	10,597	21,955	3,592	966	21,452	8,706	11,891
						16	23,093	21,078	44,171	5,957	1,233	42,772	18,000	21,681	
	Total of Rajshahi Division.	{ Paid by District Board Paid by Government Licensed ... Total ... }	8,351,689	482	{ 5 12 205 222	...	1,592	728	2,320	...	464	968	168	618	
						...	7,711	7,376	15,087	...	1,257	12,839	4,889	4,035	
						124	132,069	114,712	246,781	34,961	1,033	231,844	101,732	119,968	
						124	141,372	122,816	264,188	34,961	1,032	245,651	106,789	124,621	
Dacca Division.															
20	Dacca	... .. Licensed ...	2,529,421	913	63	24	54,498	52,923	107,421	8,093	1,576	99,997	20,938	65,160
21	Mymensingh	... ..	3,809,671	607	110	61	85,241	78,786	164,027	11,176	1,389	163,520	29,859	112,827
22	Faridpur	... ..	1,913,621	844	55	18	62,601	60,396	122,997	7,524	2,099	122,065	46,833	60,394
23	Backergunge	... ..	2,246,178	620	80	36	67,772	65,260	133,032	33,019	1,250	132,981	25,200	69,729
	Total of Dacca Division	... ..	10,498,891	703	308	139	270,112	257,365	527,477	59,812	1,518	518,563	122,830	308,110
Chittagong Division.															
24	Tippera	... .. Licensed ...	2,069,545	832	61	3	39,077	37,469	76,546	407	1,248	76,112	13,783	55,395
25	Noakhali	... ..	1,135,208	691	37	25	30,490	27,453	57,943	14,429	1,176	57,896	16,257	34,919
26	Chittagong	... ..	1,327,265	534	57	13	40,007	37,755	77,762	1,176	1,343	77,658	13,375	51,045
27	Chittagong Hills Tracts	... .. Paid by Government.	124,762	24	9	...	3,602	3,034	6,036	...	670	6,036	910	3,574
	Total of Chittagong Division.	{ Paid by Government Licensed ... Total ... }	4,656,780	396	{ 9 155 164	...	3,002	3,034	6,036	...	670	6,036	910	3,574	
						41	109,574	102,677	212,251	16,012	1,266	211,666	43,415	141,359	
						41	112,576	105,711	218,287	16,012	1,233	217,702	44,325	144,933	
Patna Division.															
28	Patna	... .. Licensed ...	1,399,274	682	73	51	15,911	14,939	30,850	5,250	350	30,841	9,878	19,956
29	Gaya	{ Paid by District Board. Licensed ... }	1,972,464	420	{ 5 59	...	2,923	2,978	5,901	...	1,180	5,874	2,871	2,574	
30	Shahabad	... ..	1,844,590	423	31	35	26,971	27,268	54,239	...	919	54,188	28,024	21,835
31	Saran	... ..	2,338,087	885	98	65	20,219	18,751	38,970	1,066	387	38,970	11,965	23,941
32	Champanan	... ..	1,752,037	498	65	65	27,903	26,170	54,073	10,677	667	54,073	16,378	32,057
33	Muzaffarpur	... ..	2,666,735	897	45	45	25,372	24,339	49,711	13,343	808	49,708	16,299	31,970
34	Darbhanga	... ..	2,809,219	846	53	53	45,608	43,034	88,642	23,720	1,225	88,637	34,176	53,666
					53	53	45,227	42,850	88,077	17,003	1,341	88,070	50,193	37,258	
	Total of Patna Division.	{ Paid by District Board. Licensed ... Total ... }	14,782,406	627	{ 5 446 451	...	2,923	2,978	5,901	...	1,180	5,874	2,871	2,574	
						333	207,211	197,351	404,562	71,059	748	404,487	166,913	220,683	
						333	210,134	200,329	410,463	71,059	752	410,361	169,784	223,257	

districts of Bengal during the year 1904-1905.

ATION.		RE-VACCINATION.			PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		Persons successfully vaccinated per 1,000 of population.	PERCENTAGE OF UNKNOWN CASES TO TOTAL CASES.		AVERAGE ANNUAL NUMBER OF PERSONS SUCCESSFULLY VACCINATED DURING PREVIOUS FIVE YEARS.		AVERAGE ANNUAL NUMBER OF DEATHS FROM SMALL-POX DURING PREVIOUS FIVE YEARS.	
ful.													
TOTAL OF ALL AGES.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.
11	12	13	14	15	16	17	18	19	20	21	22	23	24
1,329 47,652 207 36,317 42,823 103,573 25,357 20,667	3 96 ... 15 17 370 53 58	502 615 7 748 8,230 1,418 14 6	352 354 5 493 2,513 905 5 3	14 47 9 80	99'32 99'66 100' 99'65 98'86 99'35 98'75 99'61	72'13 62'32 71'42 65'91 30'56 67'63 35'71 50'	} 34'36 { } 41'43 { } 42'64 { } 38'70 { } 27'70 { } 30'90 {	.22 .20....04 .03 .35 .20 .27	2'78 7'64 1'10 5'64	} 35,916 { } 25,967 { } 34,730 { } 81,963 { } 22,342 { } 20,385 {	24'84 29'06 32'66 30'36 24'40 30'47	329 185 596 5,843 235 230	'22 '21 '56 2'16 '25 '34
1,536 276,389 277,925	3 609 612	509 11,031 11,540	357 4,273 4,630	14 136 150	99'41 99'33 99'33	72'12 39'22 40'64	} 36'76 { } 36'76 { } 36'76 {	.19 .21 .21	2'75 1'23 1'29	} 221,308 { } 221,308 { } 221,308 {	28'79 28'79 28'79	7,418 7,418 7,418	'96 '96 '96
63,024 286 18,052 54,858 38,217 50,960 36,604	11 5 800 154 180 34 18	... 3,401 4,077 795 615 178 196	... 1,133 1,875 627 395 135 64	... 864 379 3 18	99'66 100' 92'65 99'52 99'76 99'42 99'75	... 44'65 50'70 79'16 66'16 75'84 32'65	} 37'50 { } 25'18 { } 35'29 { } 30'71 { } 28'51 { } 29'88 {	.01 1'71 3'94 .27 .46 .06 .04	... 25'40 9'29 -37 2'92	} 52,498 { } 18,831 { } 47,508 { } 37,462 { } 52,555 { } 37,362 {	31'24 22'21 30'22 29'80 29'33 30'45	642 668 49 92 93 22	'38 '78 '03 '07 '05 '01
18,338 243,663 262,001	805 397 1,202	7,478 1,784 9,262	3,008 1,221 4,229	1,243 21 1,264	92'76 99'61 99'09	48'24 69'25 52'87	} 31'78 { } 31'78 { } 31'78 {	3'91 .16 .45	16'62 1'17 13'64	} 246,216 { } 246,216 { } 246,216 {	28'20 28'20 28'20	1,566 1,566 1,566	'18 '18 '18
47,773 34,033 22,594 12,726 77 60,957 900 21,240 41,397	69 28 50 26 ... 282 5 17 329	54 7,779 656 2,248 ... 4,546 1,352 503 1,399	54 6,937 372 1,400 ... 3,021 458 254 373	... 126 12 148 ... 145 70 1 9	99'81 99'24 98'92 99'92 100' 98'00 93'45 99'09 97'53	100' 90'64 97'76 66'66 ... 68'64 35'72 50'59 26'82	} 33'39 { } 26'37 { } 29'53 { } 62'36 { } 29'92 { } 27'09 { } 30'29 {	.14 .08 .21 .20....45 .51 .07 .76	... 1'61 1'83 6'58 ... 3'18 5'17 -19 6'4	} 46,729 { } 43,626 { } 21,885 { } 19,502 { } 58,291 { } 23,817 { } 41,039 {	32'62 28'08 28'14 85'63 27'26 28'12 29'76	66 386 186 32 946 324 460	'04 '24 '24 '14 '44 '38 '33
900 12,803 227,994 241,697	5 26 775 806	1,352 2,248 14,937 18,537	458 1,400 11,011 12,869	70 148 293 511	93'45 99'92 98'66 98'71	35'72 66'66 75'19 71'39	} 30'48 { } 30'48 { } 30'48 {	.51 .20 .33 .32	5'17 6'58 1'96 2'75	} 254,889 { } 254,889 { } 254,889 {	30'52 30'52 30'52	2,400 2,400 2,400	'28 '28 '28
98,105 159,306 121,431 125,252	828 1,748 155 3,664	7,424 507 932 51	3,033 396 596 24	439 17 59 ...	98'92 98'47 99'60 96'85	43'42 80'81 63'27 47'05	} 39'98 { } 41'92 { } 63'76 { } 55'77 {	.82 1'06 .12 2'75	5'91 3'35 6'33 ...	} 102,637 { } 153,110 { } 80,545 { } 95,117 {	40'57 40'19 42'09 42'34	504 1,150 98 98	'19 '30 '05 '04
504,094	6,395	8,914	4,049	515	98'42	48'20	48'39	1'23	5'77	431,409	41'09	1,850	'18
75,280 56,214 76,806 5,889	305 432 275 19	434 47 104 ...	364 15 41 ...	2 1 4 ...	99'30 97'82 99'25 97'87	84'25 32'60 41' ...	} 36'55 { } 49'53 { } 57'89 { } 47'20 {	.40 .74 .35 .31	.46 2'12 3'84 ...	} 67,248 { } 37,934 { } 58,068 { } 6,585 {	32'49 33'15 43'75 52'78	200 104 19 Not under re- gistration.	'09 '09 '01
5,889 208,300 214,189	19 1,012 1,031	... 585 585	... 420 420	... 7 7	97'87 98'88 98'85	... 72'66 72'66	} 46'08 { } 46'08 { } 46'08 {	.31 .47 .47	... 1'19 1'19	} 169,835 { } 169,835 { } 169,835 {	36'47 36'47 36'47	323 323 323	'07 '07 '07
30,530 5,663 52,419 38,611 50,833 49,205 88,205 87,506	114 37 225 103 2,277 267 12 20	9 27 51 3 5 7	6 14 24 3 4 3	... 2 10	99'35 97'01 97'13 99'34 98'14 99'52 99'52 99'38	66'66 56' 58'53 100' 80' 42'85	} 21'82 { } 29'46 { } 20'93 { } 21'74 { } 28'08 { } 33'07 { } 31'15 {	.36 .62 .41 .26 4'21 .53 .01 .02	... 7'40 19'60	} 31,951 { } 55,825 { } 32,961 { } 56,622 { } 44,646 { } 80,053 { } 81,633 {	22'83 28'30 17'87 24'21 25'48 30'02 29'06	1,545 1,402 287 598 440 586 200	1'10 '71 '15 '26 '25 '21 '07
5,663 397,309 402,972	37 3,018 3,055	27 75 102	14 40 54	2 10 12	97'01 98'96 98'93	56' 61'53 60'	} 27'26 { } 27'26 { } 27'26 {	.63 .74 .74	7'40 13'33 11'76	} 383,691 { } 383,691 { } 383,691 {	25'95 25'95 25'95	5,058 5,058 5,058	'34 '34 '34

STATEMENT No. I—Showing particulars of Vaccination in the

Number.	DISTRICT.	POPULATION.	Average population per square mile.	AVERAGE NUMBER OF VACCINATORS EMPLOYED THROUGHOUT THE YEAR.		TOTAL NUMBER OF PERSONS VACCINATED (INCLUDING THOSE VACCINATED BY APPRENTICES).				Average number of persons vaccinated by each vaccinator [(6c minus 6d) divided by 5a].	PRIMARY VACCINATION.		
				a	b	a	b	c	d		Total.	Under one year.	One year and under six years.
1	2	3	4	5	6				7	8	9	10	
Bhagalpur Division.													
35	Monghyr Licensed ...	2,015,223	515	41	40	38,853	36,551	75,404	16,725	1,431	75,339	28,107	47,056
36	Bhagalpur " ...	2,007,455	476	49	42	37,560	35,594	73,154	8,745	1,314	73,106	46,071	26,844
37	Purnea " ...	1,853,116	372	31	31	34,375	31,765	66,140	20,051	1,487	64,918	40,584	21,979
38	Malda " ...	854,247	451	23	21	16,363	15,585	31,898	7,194	1,074	31,693	22,346	8,421
	... .. { Paid by Local Fund. Licensed			2	...	2,738	1,171	3,909	...	1,954	1,413	707	561
39	Sonthal Parganas	1,788,015	327	75	21	40,484	37,042	77,526	4,063	979	67,794	36,168	30,948
	... .. { Paid by Local Fund. Licensed			2	...	2,738	1,171	3,909	...	1,954	1,413	707	561
	Total of Bhagalpur Division	8,518,056	411	219	155	167,635	156,487	324,122	56,778	1,220	312,850	173,276	135,248
	... .. { Total ...			221	155	170,373	157,658	328,031	56,778	1,227	314,263	173,983	135,809
Orissa Division.													
40	Cuttack { Paid by District Board. Licensed	1,984,038	548	4	...	986	897	1,883	...	471	1,866	124	1,151
	... .. { Licensed			54	52	46,910	44,656	91,566	15,047	1,417	91,553	14,241	65,972
41	Balasore " ...	1,050,317	511	38	9	23,648	20,837	44,485	2,345	1,109	44,378	6,962	30,563
42	Angul " ...	191,911	114	15	...	3,002	2,793	5,795	...	386	5,305	2,623	2,195
43	Puri { Paid by District Board. Licensed	967,950	392	18	...	20,368	17,498	37,866	...	2,103	37,866	2,706	28,014
44	Tributary States of Orissa— Nayagarh, Narsinghpur, and Tigaria. } Paid			7	...	1,613	1,523	3,136	...	448	3,121	127	2,633
	... .. { Licensed			112	...	29,076	25,199	54,275	...	484	53,601	12,716	35,504
	Athmalik, Nilgiri, Daspalla, Pal-Lahara, Mayurbhanj, Ranpur, Hindol, Athgarh, Dhenkanal, Keonjhar, Baud, Talcher, Khandpara, and Baramba. }	1,947,802	135										
	... .. { Paid by District Board. Licensed			22	...	21,354	18,395	39,749	...	1,807	39,732	2,830	29,165
	Total of Orissa Division ... { Paid by Native States. Licensed	6,142,018	253	7	...	1,613	1,523	3,136	...	448	3,121	127	2,633
	... .. { Total ...			219	61	102,636	93,485	196,121	17,392	816	194,837	36,542	134,239
	... .. { Total ...			248	61	125,603	113,403	239,006	17,392	893	237,690	39,499	166,037
Chota Nagpur Division.													
45	Hazaribagh Licensed	1,142,130	163	46	34	24,194	22,661	46,855	6,155	884	46,845	25,861	20,647
46	Ranchi " ...	1,157,992	162	44	42	23,298	22,426	45,724	8,213	852	45,651	36,651	8,899
47	Palamau " ...	613,763	125	24	5	8,446	8,362	16,808	1,569	635	16,808	14,627	1,863
48	Manbhum " ...	1,275,025	308	30	8	23,971	22,010	45,981	2,952	1,434	45,845	28,542	17,018
49	Singbhum " ...	604,926	153	18	10	9,642	8,582	18,224	927	961	17,332	6,235	10,637
50	Political States of Chota Nagpur— Seraikela, Kharsawan, Jashpur, Sirguja, Korea, Udai- pur, Chang Bhakar, Gangpur, and Bonai. } Licensed	1,001,429	62	57	3	22,329	20,599	42,928	437	745	35,886	22,686	12,447
	Total of Chota Nagpur Division. } Licensed	5,795,265	134	219	102	111,880	104,640	216,520	20,253	896	208,417	134,552	71,516
	... .. { Paid by District Board and Local Fund. Licensed			37	...	29,766	24,170	53,936	...	1,458	49,535	6,865	34,036
	Total for the Province ... { Paid by Government, &c. Licensed	74,807,143	413	58	...	29,751	22,560	52,311	...	902	42,570	8,751	24,930
	... .. { Total ...			2,267	1,123	1,378,942	1,285,568	2,664,510	292,551	1,046	2,606,525	968,897	1,420,172
	... .. { Total ...			2,362	1,123	1,438,459	1,332,298	2,770,757	292,551	1,049	2,698,630	984,513	1,479,138

OFFICE OF THE SANY. COMM. FOR BENGAL;

The 29th May 1905.

Districts of Bengal during the year 1904-1905—concluded.

NATION.		RE-VACCINATION.			PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		Persons successfully vaccinated per 1,000 of population.	PERCENTAGE OF UNKNOWN CASES TO TOTAL CASES.		AVERAGE ANNUAL NUMBER OF PERSONS SUCCESSFULLY VACCINATED DURING THE PREVIOUS FIVE YEARS.		AVERAGE ANNUAL NUMBER OF DEATHS FROM SMALL-POX DURING THE PREVIOUS FIVE YEARS.	
TOTAL OF ALL AGES.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.
11	12	13	14	15	16	17	18	19	20	21	22	23	24
75,274 72,967 63,003 30,868 1,402	40 2 21 127 2	65 48 1,222 205 2,496	54 33 292 151 1,729	... 2 ... 6 139	99·96 99·81 97·08 97·78 99·36	83·07 84·78 23·89 75·87 73·35	37·37 36·36 34·15 36·31 42·86	·05 ·002 ·03 ·40 ·14	... 4·16 ... 2·92 5·56	62,635 71,070 61,479 28,722 71,348	31·08 35·40 33·17 33·62 39·90	796 483 260 54 989	·39 ·24 ·14 ·06 ·55
67,288	212	9,732	6,223	60	99·56	64·34		·31	·61				
1,402	2	2,496	1,729	139	99·30	73·35		·14	5·56				
309,400 310,802	402 404	11,272 13,768	6,759 8,488	68 207	99·02 99·02	60·32 62·59	37·48	·12 ·12	·60 1·50	295,254	34·66	2,582	·30
1,708	34	17	7	9	93·23	87·50	45·17	1·82	52·94	53,063	26·74	4,304	2·17
87,894	1,394	13	10	...	97·48	76·92		1·52	...				
43,620	83	107	84	23	98·47	100	41·61	·18	21·49	38,695	36·84	982	·93
4,849	167	400	426	36	94·37	93·83	27·48	3 14	7·34	5,783	30·13	Not under registration. 1,521	
36,768	257	...	...	...	97·76	...	37·93	·67	...	31,552	32·59		
3,077	1	15	15	...	98·62	100	28·73	·03	...	38,371	19·69	Not under registration.	
52,311	425	674	574	55	98·37	92·73		·79	8·16				
38,476	211	17	7	9	97·55	87·50		·73	52·94				
3,077	1	15	15	...	98·62	100	37·66	·03	...	167,464	27·26	6,807	1·11
188,674 230,227	2,069 2,361	1,284 1,316	1,094 1,116	114 123	97·87 97·83	93·50 93·54		1·06 ·99	8·87 9·34				
46,810 45,502 16,505 45,727 17,210	1 139 46 ... 72	10 73 ... 136 842	10 46 ... 83 740	... ... ... ... ...	99·92 99·97 98·46 99·74 99·42	100 63·01 ... 61·03 87·88	40·99 39·33 26·89 35·92 29·67	·002 ·30 ·27 ... ·41	... ... ... ... ...	37,023 41,189 14,964 38,328 18,733	32·41 35·57 24·38 30·06 30·96	271 217 633 670 953	·25 ·18 1·03 ·52 1·57
35,646	62	7,042	6,250	187	99·50	91·17	41·83	·17	2·65	32,628	32·58	Not under registration.	
207,400	320	8,103	7,129	187	99·66	90·05	37·01	·15	2·30	182,865	31·55	2,744	·47
47,977	338	4,401	2,565	234	97·52	61·55		·68	5·31				
40,107	851	9,741	4,423	1,391	96·13	52·97	36·01	1·99	14·27	2,352,926	31·45	30,748	·41
2,563,223 2,651,307	14,997 16,186	57,985 72,127	35,996 42,984	1,351 2,976	98·90 98·84	63·55 62·15		·57 ·59	2·32 4·12				

W. W. CLEMESHA, M.D., D.P.H.,

CAPTAIN, I.M.S.,

Offg. Sanitary Commissioner for Bengal.

STATEMENT No. II—Showing the cost of Vaccination in the

Number.	CIRCLE AND DISTRICT.	EXPENSE												
		European supervising officers.	Pay.	Native supervising officers.	Pay.	Paid vaccinators.	Pay.	Licensed vaccinators.	Pay.	Clerks.	Pay.	Peons, &c.	Pay.	Total pay of establishment.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.	Rs. A. P.
	<i>Burdwan Division.</i>													
1	Burdwan ... ..	...	...	5	1,620 0 0	2	60 2 2	40	...	...	...	...	...	1,680 2 2
2	Birbhum ... ..	...	...	3	932 0 0	1	30 0 0	38	163 0 0*	...	...	...	...	1,125 0 0
3	Bankura ... ..	...	...	3	1,024 14 5	...	...	57	100 0 0*	...	...	...	...	1,124 14 5
4	Midnapore ... ..	...	...	7	2,103 13 5	...	...	150	84 12 0*	...	...	...	...	2,188 9 5
5	Hooghly ... ..	...	...	4	1,260 0 0	...	...	43	26 0 0*	...	...	...	...	1,286 0 0
6	Howrah ... ..	...	...	3	1,020 0 0	...	...	24	...	...	...	...	...	1,020 0 0
	<i>Presidency Division.</i>													
7	24-Parganas ... ..	...	...	7	2,330 0 0	...	...	59	...	...	...	...	...	2,330 0 0
8	Calcutta Bovine Vaccine Depôt.	...	...	1	1,500 0 0	(a)3	708 0 0	...	...	...	...	11	1,008 0 0	3,216 0 0
9	Calcutta ... ..	...	...	7	1,855 11 3	28	...	...	...	...	...	...	...	Figures not
10	Nadia ... ..	...	...	6	1,620 0 0	...	...	52	72 0 0*	...	...	...	...	1,855 11 3
11	Murshidabad ... ..	...	...	5	1,620 0 0	...	...	52	...	...	...	...	...	1,692 0 0
12	Jessore ... ..	...	...	6	1,900 0 0	...	...	108	...	...	...	...	...	1,900 0 0
12	Khulna ... ..	...	...	4	1,260 0 0	...	...	41	...	...	...	...	...	1,260 0 0
	<i>Rajshahi Division.</i>													
13	Rajshahi ... ..	...	...	4	1,400 0 0	...	...	72	18 0 0*	...	...	...	...	1,418 0 0
14	Dinaipur ... ..	...	...	3	1,008 6 2	...	...	66	106 8 0*	...	...	...	...	1,114 14 2
15	Jalpaiguri ... ..	...	...	3	910 0 0	...	...	48	118 4 0*	...	...	...	...	1,028 4 0
16	Darjeeling ... ..	...	...	3	1,078 8 8	(b)11	1,034 4 4	...	...	...	...	...	...	2,112 13 0
16	Darjeeling Bovine Vaccine Depôt.	...	...	1	876 2 4	2	324 4 6	...	...	...	...	7	689 4 8	1,889 11 6
17	Rangpur ... ..	...	...	5	1,620 0 0	...	...	65	457 0 0*	...	...	...	...	2,077 0 0
18	Bogra ... ..	...	...	2	660 0 0	5	174 7 5	31	14 4 0*	...	...	...	...	848 11 5
19	Pabna ... ..	...	...	3	964 4 9	...	...	47	179 8 0*	...	...	...	...	1,143 12 9
	<i>Dacca Division.</i>													
20	Dacca ... ..	...	...	5	1,560 13 4	...	...	87	...	...	...	...	...	1,560 13 4
21	Mymensingh ... ..	...	...	6	1,980 0 0	...	...	171	...	...	...	...	...	1,980 0 0
22	Faridpur ... ..	...	...	4	1,380 0 0	...	...	73	7 8 0*	...	...	...	...	1,387 8 0
23	Backergunge ... ..	...	...	5	1,681 11 7	...	...	116	106 4 0*	...	...	...	...	1,787 15 7
	<i>Chittagong Division.</i>													
24	Tippera ... ..	...	...	4	1,260 0 0	...	...	64	...	...	...	...	...	1,260 0 0
25	Noakhali ... ..	...	...	3	985 0 0	...	...	62	...	...	...	...	...	985 0 0
26	Chittagong ... ..	...	...	3	974 11 7	...	...	70	...	...	...	...	...	974 11 7
27	Chittagong Hill Tracts	...	...	3	1,440 0 0	9	877 11 8	...	...	...	...	...	...	2,317 11 8
	<i>Patna Division.</i>													
28	Patna ... ..	...	...	5	1,605 0 9	...	...	124	...	...	...	...	...	1,605 0 9
29	Gaya ... ..	...	...	5	1,520 0 0	5	432 0 0	94	...	...	...	...	...	1,952 0 0
30	Shahabad ... ..	...	...	5	1,645 0 5	...	...	129	287 8 0*	...	...	...	...	1,932 8 5
31	Saran ... ..	...	...	4	1,124 8 3	...	...	130	169 12 0*	...	...	...	...	1,294 4 3
32	Champanan ... ..	...	...	3	951 10 7	...	...	90	168 8 0*	...	...	...	...	1,120 2 7
33	Muzaffarpur ... ..	...	...	4	1,380 0 0	...	...	106	...	...	...	...	...	1,380 0 0
34	Darbhanga ... ..	...	...	4	1,260 0 0	...	...	106	72 12 0*	...	...	...	...	1,332 12 0
	<i>Bhagalpur Division.</i>													
35	Monghyr ... ..	...	...	4	1,213 5 4	...	...	81	...	...	...	...	...	1,213 5 4
36	Bhagalpur ... ..	...	...	5	1,616 0 0	...	...	91	219 4 0*	...	...	...	...	1,835 4 0
37	Purnea ... ..	...	...	4	1,279 8 0	...	...	62	...	...	...	...	...	1,279 8 0
38	Malda ... ..	...	...	2	720 0 0	...	...	44	...	...	...	...	...	720 0 0
39	Sonthal Parganas ... ..	...	...	7	2,210 5 2	2	159 11 10	96	144 12 0*	...	...	...	...	2,514 13 0
	<i>Orissa Division.</i>													
40	Cuttack ... ..	...	...	4	1,210 7 11	4	372 0 0	106	...	...	...	...	...	1,582 7 11
41	Balasore ... ..	...	...	3	810 0 0	...	...	47	...	...	...	...	...	810 0 0
42	Angul ... ..	...	...	3	949 5 2	...	...	15	...	...	...	...	...	949 5 2
43	Puri ... ..	...	...	3	1,010 4 10	18	1,728 0 0	...	...	...	...	...	...	2,738 4 10
44	Tributary States of Orissa.	...	...	9	1,945 6 0	(c)13	457 1 0	112	102 0 0*	...	...	...	...	2,504 7 0
	<i>Chota Nagpur Division.</i>													
45	Hazaribagh ... ..	...	...	4	1,320 0 0	...	...	80	...	...	...	...	...	1,320 0 0
46	Ranchi ... ..	...	...	3	960 0 0	...	...	86	...	...	...	...	...	960 0 0
47	Palamau ... ..	...	...	2	763 11 4	...	...	29	...	...	...	...	...	763 11 4
48	Manbhum ... ..	...	...	3	961 8 0	...	...	38	...	...	...	...	...	961 8 0
49	Singhbhum ... ..	...	...	2	720 0 0	...	...	28	...	...	...	...	...	720 0 0
50	Political States of Chota Nagpur.	...	...	4	1,567 7 9	...	...	60	...	...	...	...	...	1,567 7 9
	Total of Vaccination Circles ... ..	...	...	210	66,949 11 0	103	6,357 10 11	3,390	2,617 8 0*	...	...	18	1,697 4 8	77,622 2 7
	Establishment of Deputy Sanitary Commissioners—													
	Metropolitan and Eastern Bengal Circle	1	8,236 6 3	...	...	...	...	...	...	2	704 13 4	2	120 0 0	9,061 3 7
	Northern Bengal Circle	1	6,667 3 0	...	...	...	...	...	...	2	960 0 0	2	168 0 0	7,795 3 0
	Western Bengal Circle	1	7,397 6 5	...	...	...	...	...	...	2	652 6 7	2	144 0 0	8,193 13 0
	Total	3	22,300 15 8	...	...	...	...	...	...	6	2,317 3 11	6	432 0 0	25,050 3 7
	Total for the Province	3	22,300 15 8	210	66,949 11 0	103	6,357 10 11	3,390	2,617 8 0*	6	2,317 3 11	24	2,129 4 8	1,02,672 6 2
	Municipalities ... ..	...	...	7	1,728 0 0	(d)208	17,429 1 7	...	...	2	240 0 0	8	404 9 10	19,801 11 5
	GRAND TOTAL	3	22,300 15 8	217	68,677 11 0	311	23,786 12 6	(e)3,390	2,617 8 0*	8	2,557 3 11	32	2,533 14 6	1,22,474 1 7

* Deputation allowance paid to licensed vaccinators
+ This includes Rs. 405-5-9 spent by Civil Surgeons
(a) In Calcutta Bovine Vaccine Depôt 3 includes
(b) In Darjeeling 11 includes 1 head-vaccinator and
(c) In the Tributary States of Orissa 13 includes
(d) In mufassal municipalities 208 includes 1 head-
(e) This includes 1,123 apprentices.

OFFICE OF THE SANY. COMM. FOR BENGAL;

The 29th May 1905.

districts of Bengal during the year 1904-1905.

DITURE.				PAID FROM—						Number of all successful vaccinations and re-vaccinations.	Average cost of each successful case.
Travelling allowance.	Contingencies.		Total cost.	Imperial fund.	Provincial fund.	Local fund.	Municipalities.	Native States.	Total.		
	Cost of lymph.	Other contingencies.									
16	17	18	19	20	21	22	23	24	25	26	27
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.
652 4 9	...	193 1 0	2,525 7 11	...	2,465 5 9	60 2 2	...	...	2,525 7 11	49,687	0 0 9
508 14 0	...	52 11 0	1,686 9 0	...	1,656 9 0	30 0 0	...	...	1,686 9 0	37,022	0 0 8
978 3 6	...	55 0 0	2,158 1 11	...	2,058 1 11	100 0 0	...	...	2,158 1 11	45,336	0 0 9
1,396 5 6	76 14 0	125 0 0	3,786 12 11	...	3,709 14 11	76 14 0	...	...	3,786 12 11	104,478	0 0 6
1,075 7 0	43 8 3	59 15 6	2,464 14 9	...	2,421 6 6	43 8 3	...	...	2,464 14 9	25,362	0 1 6
596 10 0	148 11 0	69 15 0	1,835 4 0	...	1,686 9 0	148 11 0	...	...	1,835 4 0	20,670	0 1 5
2,474 7 0	...	175 9 0	4,980 0 0	...	4,980 0 0	...	...	...	4,980 0 0	63,024	0 1 3
...	...	5,992 2 9	9,208 2 9	...	9,208 2 9	...	...	...	9,208 2 9	1,419	...
furnished.	19,927	...
1,367 12 6	...	48 9 0	3,272 0 9	...	3,272 0 9	...	...	...	3,272 0 9	55,485	0 0 11
644 12 6	59 8 0	166 10 0	2,562 14 6	...	2,503 6 6	59 8 0	...	...	2,562 14 6	38,612	0 1 0
795 1 0	...	100 0 6	2,795 1 0	...	2,795 1 0	...	...	...	2,795 1 0	51,095	0 0 10
1,099 12 0	...	80 0 0	2,439 12 0	...	2,439 12 0	...	...	...	2,439 12 0	36,668	0 1 0
553 3 3	...	37 10 6	2,008 13 9	...	1,990 13 9	18 0 0	...	...	2,008 13 9	47,827	0 0 8
686 13 0	...	79 15 6	1,881 10 8	...	1,881 10 8	...	...	...	1,881 10 8	40,970	0 0 8
630 7 9	...	68 15 6	1,727 11 3	...	1,727 11 3	...	...	...	1,727 11 3	22,966	0 1 2
2,678 5 6	...	50 9 0	4,841 11 6	...	4,841 11 6	...	...	...	4,841 11 6	14,126	0 5 5
649 12 0	...	804 10 0	3,344 1 6	...	3,344 1 6	...	...	...	3,344 1 6	77	...
1,005 11 9	...	75 0 0	3,157 11 9	...	3,157 11 9	...	...	...	3,157 11 9	63,978	0 0 9
446 14 6	...	85 0 0	1,380 9 11	...	1,206 2 6	174 7 5	...	...	1,380 9 11	22,852	0 0 11
1,107 4 6	...	50 0 0	2,301 1 3	...	2,301 1 3	...	...	...	2,301 1 3	41,770	0 0 10
1,707 13 6	200 0 0	190 0 0	3,658 10 10	...	3,458 10 10	200 0 0	...	...	3,658 10 10	101,138	0 0 6
1,146 5 6	...	99 15 6	3,226 5 0	...	3,226 5 0	...	...	...	3,226 5 0	159,702	0 0 3
1,718 4 0	...	274 10 6	3,380 6 6	...	3,180 6 6	200 0 0	...	...	3,380 6 6	122,027	0 0 5
2,778 8 6	...	100 0 0	4,666 8 1	...	4,666 8 1	...	...	...	4,666 8 1	125,276	0 0 7
899 12 11	...	60 0 0	2,219 12 11	...	2,219 12 11	...	...	...	2,219 12 11	75,644	0 0 5
692 15 3	...	80 0 0	1,757 15 3	...	1,757 15 3	...	...	...	1,757 15 3	56,229	0 0 6
869 13 6	...	50 0 0	1,394 9 1	...	1,394 9 1	...	...	...	1,394 9 1	76,847	0 0 3
839 2 0	...	30 0 0	3,186 13 8	...	3,186 13 8	...	...	...	3,186 13 8	5,889	0 8 7
796 0 6	...	69 9 0	2,470 10 3	...	2,470 10 3	...	...	...	2,470 10 3	30,536	0 1 3
1,028 0 3	...	60 0 0	3,040 0 3	...	2,608 0 3	432 0 0	...	...	3,040 0 3	58,120	0 0 10
1,164 4 8	...	179 3 6	3,276 0 7	...	3,176 0 7	100 0 0	...	...	3,276 0 7	38,611	0 1 4
361 10 0	...	100 0 0	1,755 14 3	...	1,755 14 3	...	...	...	1,755 14 3	50,833	0 0 6
410 10 6	...	65 3 0	1,596 0 1	...	1,596 0 1	...	...	...	1,596 0 1	49,208	0 0 6
642 0 6	...	74 0 3	2,096 0 9	...	2,096 0 9	...	...	...	2,096 0 9	88,209	0 0 4
786 4 3	...	55 12 0	2,174 12 3	...	2,174 12 3	...	...	...	2,174 12 3	87,509	0 0 4
799 14 0	...	54 10 0	2,067 13 4	...	2,067 13 4	...	...	...	2,067 13 4	75,328	0 0 5
949 5 0	...	95 0 0	2,879 9 0	...	2,879 9 0	...	...	...	2,879 9 0	73,006	0 0 7
899 7 0	...	54 0 0	2,232 15 0	...	2,232 15 0	...	...	...	2,232 15 0	63,295	0 0 6
747 6 0	...	35 0 0	1,502 6 0	...	1,502 6 0	...	...	...	1,502 6 0	31,019	0 0 9
1,196 1 6	...	80 0 0	3,790 14 6	...	3,631 2 8	159 11 10	...	...	3,790 14 6	76,642	0 0 9
723 11 0	...	120 0 0	2,426 2 11	...	2,034 2 11	392 0 0	...	...	2,426 2 11	89,619	0 0 5
598 11 0	...	40 0 0	1,448 11 0	...	1,448 11 0	...	...	...	1,448 11 0	43,704	0 0 6
462 9 0	...	34 13 9	1,446 11 11	...	1,446 11 11	...	...	...	1,446 11 11	5,275	0 4 4
613 2 0	...	70 0 0	3,421 6 10	...	1,693 6 10	1,728 0 0	...	...	3,421 6 10	36,763	0 1 5
...	2,504 7 0	...	...	...	...	2,504 7 0	2,504 7 0	55,977	0 0 8
700 0 0	...	77 0 9	2,097 0 9	...	2,097 0 9	...	...	...	2,097 0 9	46,820	0 0 8
483 8 0	...	35 0 0	1,478 8 0	...	1,478 8 0	...	...	...	1,478 8 0	45,548	0 0 6
331 14 6	...	43 6 0	1,143 15 10	...	1,143 15 10	...	...	...	1,143 15 10	16,505	0 1 1
949 14 6	...	40 0 0	1,951 6 6	...	1,951 6 6	...	...	...	1,951 6 6	45,810	0 0 8
637 1 6	...	75 0 0	1,482 1 6	...	1,482 1 6	...	...	...	1,482 1 6	17,950	0 1 3
657 10 0	2,225 1 9	...	304 1 2	...	...	1,921 0 7	2,225 1 9	41,896	0 0 10
45,489 14 10	528 9 3	10,717 10 0+	1,34,358 4 8	...	1,26,009 14 5	3,922 14 8	...	4,425 7 7	1,34,358 4 8	2,694,291	0 0 9
1,812 2 3	...	500 0 0	11,373 5 10	...	11,373 5 10	...	...	...	11,373 5 10	...	...
2,540 10 9	...	938 14 9	11,274 12 6	...	11,274 12 6	...	...	...	11,274 12 6	...	...
2,274 10 9	...	650 0 9	11,118 8 6	...	11,118 8 6	...	...	...	11,118 8 6	...	...
6,627 7 9	...	2,088 15 6	33,766 10 10	...	33,766 10 10	...	...	...	33,766 10 10	...	...
52,117 6 7	528 9 3	12,806 9 6	1,68,124 15 6	...	1,59,776 9 3	3,922 14 8	...	4,425 7 7	1,68,124 15 6	2,694,291	0 0 11
...	673 0 3	1,598 8 0	22,073 3 8	...	...	333 8 0	21,574 11 8	160 0 0	22,073 3 8	110,235	0 3 2
52,117 6 7	1,201 9 6	14,405 1 6	1,90,198 3 2	...	1,59,776 9 3	4,261 6 8	21,574 11 8	4,585 7 7	1,90,198 3 2	2,804,526	0 1 1

for small-pox duty during recess.
 during the past vaccination season on account of antiseptic vaccination
 1 head-vaccinator.
 2 temporary vaccinators.
 6 head-vaccinators.
 vaccinator.

W. W. CLEMESHA, M.D., D.P.H.,

CAPTAIN, I.M.S.,

Offg. Sanitary Commissioner for Bengal.

STATEMENT No. III.—Showing particulars of Vaccination performed by Vaccinators attached to Municipalities, Dispensaries, &c., in the Province of Bengal, during the year 1904-1905.

DISTRICT.	Number of municipalities dispensaries, &c., in each district to which a vaccinator is attached.	Average number of vaccinators attached to municipalities, dispensaries, &c., during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	PRIMARY VACCINATION.					REVACCINATION.			PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		PERCENTAGE OF UNKNOWN CASES TO TOTAL CASES.	
					Total.	Successful.			Unknown.	Total.	Successful.	Unknown.	Primary.	Revaccination.	Primary.	Revaccination.
						Under one year.	One and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Burdwan ...	6	6	3,715	619	3,143	1,521	1,171	3,062	43	572	362	44	98.77	68.56	1.36	7.69
Birbhum ...	1	1	567	567	260	137	78	241	7	307	157	64	95.25	64.60	2.69	20.84
Bankura ...	3	3	2,148	716	1,202	555	583	1,163	...	946	196	47	95.92	21.80	...	4.96
Midnapore ...	7	8	3,783	473	2,830	916	1,465	2,724	48	953	613	53	97.91	68.11	1.69	5.56
Hooghly ...	8	9	3,881	431	3,012	1,254	1,306	2,975	13	869	417	55	99.19	51.22	.43	6.32
Howrah ...	3	6	4,578	763	4,094	2,032	1,877	4,021	41	484	172	53	99.21	39.90	1.00	10.95
24 Parganas ...	27	31	13,821	446	13,285	6,579	5,871	13,079	16	536	198	6	98.56	37.56	.12	1.11
Nadia ...	9	10	4,793	479	4,268	1,708	2,283	4,190	57	525	427	34	99.50	86.96	1.33	6.47
Murshidabad ...	5	6	3,355	559	3,057	807	1,829	2,921	36	298	215	44	96.69	84.64	1.17	14.76
Jessore ...	3	3	1,401	467	717	311	355	701	7	684	454	82	98.73	75.41	.97	11.98
Khulna ...	3	3	782	261	678	415	237	676	...	104	42	17	99.70	48.27	...	16.34
Rajshahi ...	2	2	1,946	973	1,209	707	433	1,184	17	737	464	4	99.32	63.30	1.40	.54
Dinaipur ...	1	1	450	450	211	58	131	201	1	239	205	13	95.71	90.70	.47	5.43
Jalpaiguri ...	1	1	464	464	267	101	128	244	12	197	77	27	95.68	45.29	4.40	13.70
Darjeeling ...	2	2	2,508	1,254	1,751	424	201	1,417	185	757	412	135	90.48	66.23	10.56	17.83
Rangpur ...	1	2	882	441	470	195	196	465	...	412	186	...	98.93	45.14	...	...
Bogra ...	2	2	605	303	383	116	224	372	4	222	103	13	98.15	49.28	1.04	5.85
Pabna ...	2	2	1,774	887	1,086	495	509	1,046	17	688	144	102	97.84	24.57	1.56	14.82
Dacca ...	2	6	6,529	1,088	3,644	1,139	1,862	3,501	35	2,885	1,650	99	97.00	59.22	.96	3.43
Mymensingh ...	8	8	4,548	568	3,000	992	1,156	2,766	111	1,548	918	148	95.74	65.57	3.70	9.56
Faridpur ...	2	2	2,281	1,140	1,736	350	496	1,636	9	545	203	35	94.73	39.80	.51	6.42
Backergunge ...	5	5	2,703	541	2,359	319	534	1,801	417	344	77	58	92.73	26.92	17.67	16.86
Tippera ...	3	3	1,695	565	1,613	637	655	1,497	60	82	57	6	96.39	75.00	3.71	7.31
Noakhali ...	1	1	537	537	381	48	87	282	30	156	53	11	80.34	36.55	7.87	7.05
Chittagong ...	2	2	1,921	960	1,550	156	1,031	1,402	64	371	179	80	94.34	61.61	4.12	21.56
Patna ...	5	13	7,738	595	7,207	4,136	2,736	6,943	140	531	220	42	98.24	44.98	1.94	7.90
Gaya ...	6	8	4,309	538	3,508	2,161	924	3,196	244	801	468	137	97.91	61.44	6.95	17.10
Shahabad ...	6	7	3,385	483	2,868	1,623	1,042	2,790	32	517	333	80	98.37	76.20	1.11	15.47
Saran ...	3	5	3,330	666	2,551	1,262	993	2,316	128	779	477	151	95.68	75.95	5.01	19.38
Champanan ...	2	3	1,950	650	1,708	1,094	308	1,667	8	242	196	...	98.05	80.99	.46	...
Muzaffarpur ...	4	6	3,258	543	2,564	1,452	1,005	2,493	5	694	435	...	97.42	62.68	.19	...
Darbhanga ...	5	8	3,703	463	3,168	1,938	1,045	3,109	15	535	401	9	98.60	76.23	.47	1.68
Monghyr ...	2	4	3,829	957	3,133	1,383	1,612	3,104	11	696	402	102	99.42	67.67	.35	14.65
Bhagalpur ...	2	3	4,692	1,531	2,433	1,916	472	2,445	7	2,109	1,230	154	98.74	62.92	.28	7.30
Purnea ...	2	2	905	452	884	209	172	521	11	321	97	15	90.92	31.69	1.88	4.67
Malda ...	3	3	879	283	617	393	191	605	...	262	81	21	98.05	33.61	...	8.01
Sonthal Parganas ...	3	3	1,242	414	1,017	556	395	1,005	...	225	134	29	98.82	68.36	...	12.88
Cuttack ...	3	5	4,704	941	3,707	1,434	1,762	3,440	211	997	747	214	98.39	95.40	5.69	21.46
Balasore ...	1	1	1,550	1,550	875	434	381	827	11	675	487	95	95.71	83.96	1.25	14.07
Puri ...	1	1	3,163	3,163	3,139	490	1,840	3,101	2	24	15	2	98.85	68.18	.06	8.33
Hazaribagh ...	3	3	1,683	563	1,182	924	224	1,161	...	506	310	5	98.22	61.87	...	.98
Ranchi ...	2	2	2,165	1,082	1,288	473	495	1,261	...	877	399	...	97.90	45.49	...	...
Palamau ...	1	1	502	502	359	152	28	350	1	143	121	2	97.76	85.81	.27	1.39
Manbhum ...	3	3	1,636	545	813	614	124	769	17	823	317	195	96.60	50.47	2.09	23.69
Singbhum ...	1	1	955	955	399	302	24	383	...	556	401	46	95.99	78.62	...	8.27
Total ...	167	207	127,150	614	99,376	45,035	40,476	95,043	2,073	27,774	15,192	2,529	97.67	60.17	2.08	9.10

OFFICE OF THE SANY. COMM. FOR BENGAL,
The 29th May 1905.

W. W. CLEMESHA, M.D., D.P.H.,
CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner, Bengal.

COMPARATIVE STATEMENT No IV.

COMPARATIVE STATEMENT No. IV—*Showing the number of persons primarily
of the undermen*

ESTABLISHMENT.	PERSONS PRIMARILY									
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
	1895-96.		1896-97.		1897-98.		1898-99.		1899-1900.	
1	2	3	4	5	6	7	8	9	10	11
Government ...	39,180	33,310	32,706	32,150	31,702	29,965	27,865	27,577	27,931	27,716
Municipal ...	96,266	89,705	104,738	98,366	99,914	94,523	89,423	85,235	97,869	92,979
Local Funds ...	69,387	58,842	61,448	59,905	57,764	55,732	32,609	31,707	42,738	40,882
Native States ...	11,820	10,767	9,318	8,328	13,139	12,457	14,043	12,696	6,688	5,996
Dispensaries ...	4,751	4,188	5,350	4,554	4,963	4,295	4,513	3,523	4,001	3,105
Work done by licensed vaccinators.	2,015,528	1,978,088	2,009,568	1,973,512	2,035,611	1,998,537	1,918,832	1,884,646	2,024,757	1,982,146
Total ...	2,227,932	2,179,900	2,223,128	2,176,815	2,243,093	2,195,509	2,087,285	2,045,384	2,203,984	2,152,824

OFFICE OF THE SANY. COMMR. FOR BENGAL ;
The 29th May 1905.

vaccinated and the number of those persons who were successfully vaccinated in each tioned official years.

VACCINATED.

Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
1900-1901.		1901-1902.		1902-1903.		1903-1904.		1904-1905.	
12	13	14	15	16	17	18	19	20	21
26,506	26,186	27,760	27,336	17,986	17,730	17,018	16,893	19,166	18,978
104,636	100,218	112,219	107,946	103,508	97,864	111,019	105,661	114,209	108,363
44,244	42,757	56,500	54,753	90,459	87,708	60,240	58,547	52,809	50,683
11,214	10,749	6,636	6,454	4,428	4,295	4,503	4,369	3,121	3,077
5,022	4,560	5,525	5,022	5,101	4,438	5,104	4,602	2,176	2,086
2,036,320	1,993,447	2,321,138	2,278,053	2,370,635	2,331,248	2,436,679	2,396,654	2,606,525	2,563,223
2,227,942	2,177,917	2,529,778	2,479,564	2,592,177	2,543,283	2,634,563	2,586,726	2,798,006	2,746,350

W. W. CLEMESHA, M.D., D.P.H.,
CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner for Bengal.

STATEMENT No. V.—Showing particulars of Vaccination

DISTRICT.	TOTAL NUMBER INSPECTED										PERCENTAGE OF INSPEC			
	TOTAL NUMBER OF PERSONS VAC- CINATED.		By DEPUTY SANITARY COMMISSIONERS OR CIVIL SURGEONS.				By NATIVE SUPERINTENDENTS OR OTHER INSPECTING OFFICERS.				By DEPUTY SANITARY COMMISSIONERS OR CIVIL SURGEONS.			
			Deputy Sanitary Com- missioners.		Civil Surgeons.		District Inspectors.		Sub-Inspectors.		Deputy Sanitary Com- missioners.		Civil Surgeons.	
			Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Burdwan	52,392	1,689	...	...	2,760	322	26,539	785	43,003	217	...	...	5'26	19'06
Birbhum	36,926	1,062	...	...	5,669	47	19,860	492	29,805	663	...	...	15'35	4'42
Bankura	44,534	9,176	...	...	5,967	265	22,698	647	39,774	3,015	...	...	13'39	2'88
Midnapore	107,448	2,371	...	...	2,048	10	46,625	671	94,289	840	...	...	1'90	'42
Hooghly	17,922	760	...	...	3,431	647	13,564	31	14,770	12	...	...	19'14	85'13
Serampore	10,820	123	...	...	1,730	...	...	...	9,560	87	...	...	15'98	...
Howrah	24,899	490	...	...	412	...	(a) 13,525	286	(c) 22,709	204	...	...	1'65	...
34-Parganas	76,535	536	...	...	3,860	1	13,056	286	20,030	11	...	...	...	...
Calcutta	20,283	4,077	...	...	...	...	(b) 21,406	42	(d) 58,486	208	...	...	5'04	'18
Calcutta Bovine Vaccine Depôt.	291	3,401	...	...	...	...	20,497	42	53,254	110	...	...	...	...
Nadia	59,541	1,320	...	...	8,192	53	33,590	192	51,367	668	...	...	13'75	4'01
Murshidabad	41,543	913	...	...	2,679	209	27,662	110	35,483	513	...	...	6'44	22'89
Jessore	52,005	862	...	...	2,153	529	13,651	412	34,468	424	...	...	4'13	61'36
Khulna	37,390	300	...	...	2,962	33	12,927	19	24,738	63	...	...	7'92	11'00
Rajshahi	49,189	791	...	...	4,676	706	19,078	40	35,773	352	...	...	9'51	89'26
Dinajpur	34,530	8,018	...	...	1,122	1,588	17,660	4,567	25,060	7,529	...	...	3'24	19'80
Jalpaiguri	23,157	853	...	...	705	182	13,551	274	17,423	267	...	...	3'04	21'33
Darjeeling	14,590	3,005	56	...	1,722	122	8,157	1,175	9,750	1,928	'38	...	11'80	4'05
Rangpur	62,951	4,958	244	273	4,956	549	31,804	1,320	54,588	2,184	'38	5'50	7'87	11'07
Bogra	22,803	2,077	...	...	4,341	...	12,074	632	10,203	440	...	...	19'03	...
Pabna	43,858	2,087	...	...	11,139	575	27,007	530	35,979	816	...	...	25'39	27'55
Dacca	103,641	10,309	2,274	20	4,596	1,505	24,435	2,311	(e) 75,374	6,145	2'19	'19	4'43	14'59
Mymensingh	166,520	2,055	...	...	2,743	726	53,104	81	116,161	339	...	...	1'64	35'32
Faridpur	123,801	1,477	1,300	...	4,259	322	45,204	812	51,556	684	1'05	...	3'44	21'80
Backergunge	135,340	395	1,519	6	140	174	50,683	71	103,650	139	1'12	1'51	'10	44'05
Tippera	77,725	516	...	...	937	...	23,704	84	41,995	225	...	...	1'20	...
Noakhali	58,277	203	...	...	2,249	...	17,623	...	33,723	...	...	...	3'85	...
Chittagong	79,208	475	...	...	718	272	18,257	178	35,134	204	...	...	'90	57'26
Chittagong Hill Tracts.	6,036	...	...	...	1,023	...	2,621	...	4,069	...	...	...	16'94	...
Patna	38,048	540	567	...	103	332	16,612	...	28,424	...	1'49	...	'27	61'48
Gaya	63,570	879	...	...	4,648	452	25,381	...	46,472	82	...	...	7'31	51'42
Shahabad	41,838	517	85	...	3,475	...	16,223	...	30,326	...	'20	...	8'30	...
Saran	56,624	779	...	...	5,204	477	15,428	477	28,100	478	...	...	9'19	61'23
Champaran	51,416	245	368	...	12,147	216	13,923	...	21,980	...	'71	...	23'62	88'16
Muzaffarpur	91,201	699	181	...	7,202	635	45,548	52	73,583	55	'19	...	7'89	90'84
Darbhanga	91,238	542	...	...	8,996	485	46,527	...	77,864	2	...	...	9'85	89'48
Monghyr	78,472	761	3,531	...	4,275	571	38,093	...	(f) 60,850	160	4'49	...	5'44	75'03
Bhagalpur	75,539	2,157	2,740	...	3,488	...	45,154	82	59,099	48	...	...	4'61	...
Purnea	65,502	1,543	...	...	632	103	32,358	...	48,126	10	3'62	...	'96	6'67
Malda	32,310	467	397	...	7,020	286	17,066	15	51,778	356	...	...	21'72	61'24
Sonthal Parganas	70,224	12,453	9,407	6	7,166	61	21,841	3,718	26,477	5	1'22	...	10'20	'48
Cuttack	97,126	1,027	187	10	1,487	...	34,669	60	53,150	6,959	13'39	'04	1'53	...
Balasore	45,253	782	112	...	1,093	472	47,728	...	47,728	17	'19	'97	2'41	60'35
Angul	5,305	490	3,049	...	750	...	25,621	48	33,522	194	'24	...	14'13	...
Puri	41,005	24	...	...	4,453	24	3,062	52	3,080	375	57'47	...	10'85	100'
Tributary States of Orissa.	56,722	689	4,050	...	...	...	17,030	24	31,908	10	...	...	...	...
Hazaribagh	48,027	516	...	...	1,580	320	...	...	14,070	...	7'14	...	...	...
Ranchi	46,939	950	...	...	4,234	...	20,969	...	38,037	7	...	...	3'28	62'01
Palamau	17,167	143	...	...	2,154	121	17,643	...	24,903	...	...	...	9'12	...
Manbhum	46,658	959	...	...	3,398	683	8,692	...	6,909	...	...	...	12'54	84'61
Singhbhum	17,781	1,393	...	...	3,398	683	24,560	105	39,714	4	...	...	7'28	71'22
Political States of Chota Nagpur.	35,886	7,042	...	...	6,743	800	12,233	733	12,129	791	...	...	37'92	57'22
Total for the Province.	2,798,006	99,901	30,067	315	177,487	14,875	1,151,153	27,132	1,931,877	37,961	1'07	'31	6'34	14'88

(a) and (b) Include the inspections performed by the Special
the year, his work having been performed by the
(c) Ditto ditto Sub-Inspector
(d) Ditto ditto Sub-Inspectors
(e) Ditto ditto Sub-Inspector
(f) Ditto ditto ditto
(g) The number of successful cases inspected by four of the

OFFICE OF THE SANY. COMM. FOR BENGAL :
The 29th May 1905.

verified by Inspecting Officers during the year 1904-1905.

TION TO TOTAL NUMBER VACCINATED.				PERCENTAGE OF CASES FOUND SUCCESSFUL TO TOTAL NUMBER INSPECTED.								PERCENTAGE OF SUCCESS REPORTED BY VACCINATORS.	
BY NATIVE SUPERINTENDENTS OR OTHER INSPECTING OFFICERS.				BY DEPUTY SANITARY COMMISSIONERS OR CIVIL SURGEONS.				BY NATIVE SUPERINTENDENTS OR OTHER INSPECTING OFFICERS.					
District Inspectors.		Sub-Inspectors.		Deputy Sanitary Commissioners.		Civil Surgeons.		District Inspectors.		Sub-Inspectors.			
Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.
16	17	18	19	20	21	22	23	24	25	26	27	28	29
50'65	46'47	82'07	12'84	...	...	98'40	61'80	99'58	59'23	99'71	53'91	99'33	63'23
53'78	46'32	80'71	62'42	...	...	99'06	53'19	99'69	60'16	99'63	47'06	99'56	61'67
50'96	7'05	89'31	32'85	...	...	96'01	29'81	97'96	23'64	94'61	22'48	98'74	29'52
43'39	28'30	87'75	35'42	...	...	99'07	60'00	98'73	59'31	98'46	63'04	98'92	64'02
75'68	4'07	82'41	1'60	...	...	99'50	57'95	99'58	51'61	99'24	75'00	99'30	51'67
{	...	88'35	70'73	...	...	98'67	...	...	...	96'43	16'09	97'36	24'39
	54'31	58'36	91'20	41'63	...	...	100'	...	99'57	41'60	98'44	40'19	...
	52'43	58'36	80'44	2'24	...	...	...	...	99'54	41'60	98'95	36'36	99'15
	27'96	7'83	76'41	38'80	...	...	99'66	100'	98'86	21'43	99'36	31'73	...
	26'78	7'83	69'58	20'52	...	...	...	...	98'81	21'43	99'32	37'27	99'43
76'23	79'64	...	...	...	...	...	...	89'77	45'42	...	...	89'00	45'98
...	...	...	...	...	...	...	...	...	...	...	...	98'28	33'31
56'41	14'54	86'27	50'60	...	...	98'74	33'96	98'42	31'25	99'18	66'46	99'17	79'84
66'58	12'04	85'41	56'07	...	...	98'50	6'69	99'07	43'63	99'42	53'99	99'02	66'81
26'24	47'79	66'27	49'18	...	...	99'72	78'82	99'25	72'08	99'06	72'17	99'33	68'32
34'57	6'33	66'16	21'00	...	...	99'66	48'48	99'61	47'37	99'62	38'09	99'70	35'33
38'82	5'05	72'79	44'50	...	...	99'74	63'31	98'75	32'50	99'65	82'95	99'62	65'48
51'14	56'95	72'57	93'88	...	...	92'15	49'87	96'70	58'72	94'03	71'07	99'14	89'07
58'51	32'12	75'26	31'30	...	...	97'30	39'56	99'89	40'87	97'83	50'19	98'62	52'63
55'90	39'10	66'82	64'15	100'	...	99'41	52'45	99'08	76'59	99'38	80'29	97'46	69'29
50'52	26'62	86'71	44'05	95'90	79'48	87'20	98'90	95'27	11'90	95'88	47'39	97'57	64'68
52'94	31'39	44'74	21'18	...	...	99'51	...	95'74	37'11	96'06	46'13	98'72	39'23
61'57	27'78	82'03	39'09	...	...	98'72	26'78	98'09	33'10	98'18	31'74	96'77	24'77
23'57	22'41	72'72	59'60	99'20	65'00	97'43	61'99	98'37	48'33	96'77	34'09	98'03	45'42
31'89	39'41	70'52	44'82	...	...	97'04	67'63	98'24	24'69	97'29	63'24	97'32	63'94
36'51	54'97	69'75	18'92	96'30	...	98'37	57'14	99'84	45'81	99'01	57'31	99'40	54'09
37'44	17'97	76'58	35'18	96'57	66'66	84'28	14'36	94'47	33'80	93'64	35'97	93'87	25'56
30'49	16'27	57'89	43'60	...	...	77'69	...	95'20	46'43	97'14	84'44	93'78	81'58
30'24	...	57'86	...	...	...	89'99	...	97'33	...	96'65	...	96'94	33'49
23'04	37'47	44'35	42'94	...	...	95'54	48'16	96'68	55'05	95'54	55'88	98'73	46'31
43'42	...	67'41	...	...	...	94'52	...	95'23	...	94'47	...	97'56	...
43'66	...	74'70	...	99'64	...	100'	53'01	97'77	...	98'21	...	98'48	41'85
39'92	...	73'10	9'32	...	...	96'14	100'	88'75	...	96'27	68'29	98'39	50'73
38'78	...	72'48	...	97'64	...	98'50	...	97'89	...	98'72	...	98'95	64'41
27'24	61'23	49'62	61'36	...	...	95'00	100'	95'89	100'	97'95	99'79	98'86	61'23
27'07	...	42'74	...	99'18	...	99'07	80'55	98'72	...	98'90	...	98'94	81'22
49'94	74'39	80'63	7'86	100'	...	99'58	68'34	99'18	...	98'97	12'72	99'44	62'80
50'99	...	85'34	3'36	...	...	99'27	75'46	99'26	...	99'29	...	99'31	74'53
48'54	...	77'54	21'02	99'97	...	99'83	63'30	99'97	...	99'96	62'50	99'88	59'92
53'73	3'80	75'31	6'30	...	...	...	...	...	...	99'96	79'16	...	...
49'40	...	63'66	4'63	99'85	...	99'94	...	99'83	73'17	99'62	40'00	99'76	58'83
52'81	3'21	79'04	23'07	...	...	85'91	23'15	94'69	...	94'82	19'38	96'98	25'21
31'10	29'85	81'94	1'07	99'24	...	96'88	26'22	93'74	40'00	90'77	20'00	97'40	49'70
35'69	5'84	75'68	55'88	99'09	...	98'70	80'32	99'32	51'42	98'17	53'49	99'24	64'93
63'24	6'13	49'14	1'65	98'93	50'00	96'90	...	95'31	91'66	95'55	58'82	95'79	74'39
57'71	10'61	74'07	24'80	90'17	...	82'70	51'69	98'87	43'75	97'10	73'71	98'21	73'01
41'53	100'	58'05	76'53	98'75	...	98'80	...	95'33	73'07	92'40	87'73	91'40	86'93
...	...	77'81	41'66	...	...	99'77	62'50	95'83	62'50	95'71	70'00	97'22	62'50
...	...	24'80	...	96'44	...	...	...	...	...	(g)65'97	...	97'64	85'48
43'66	...	79'19	1'35	...	...	99'36	61'25	99'65	...	99'73	100'00	99'88	62'01
37'58	...	53'05	...	...	...	100'	...	97'55	...	97'56	...	99'62	46'91
50'63	...	40'24	...	...	...	98'74	85'12	99'51	...	99'47	...	98'18	84'61
52'63	10'94	85'11	41	...	...	97'32	51'83	98'88	44'76	98'45	50'00	99'65	41'71
68'79	52'43	68'21	56'58	...	...	99'65	86'62	99'65	83'90	99'18	80'40	98'94	81'61
47'49	38'15	49'73	3'40	...	...	...	...	97'36	73'79	97'02	60'00	99'33	88'75
41'14	27'15	69'04	37'99	98'59	75'87	97'86	61'93	97'71	53'60	97'37	54'09	98'15	58'23

Inspector for the suburbs of Calcutta and Howrah Municipality. This incumbent retired from the 1st August 1904, and the post remained vacant throughout District Inspectors of 24-Parganas and Howrah in addition to their own duties.
attached to the Suburban Municipalities.
attached to the Dacca Municipality.
and Civil Hospital Assistant attached to the Jamalpur Municipality.
Sub-Inspectors attached to the Tributary States of Orissa has not been furnished,

W. W. CLEMESHA, M.D., D.P.H.,
CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner for Bengal.

STATEMENT No. VI—Showing, side by side, the ratios, per 1,000 of population, of Deaths from Small-pox and the number of successful Vaccinations during the ten years ending 1904-1905.

District.	1893-96.			1896-97.			1897-98.			1898-99.			1899-1900.			1900-1901.			1901-1902.			1902-1903.			1903-1904.			1904-05.		
	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21										
Burdwan	34	31,061	33	41,345	20	38,137	20	31,490	01	29,908	14	24,570	28	39,994	27	41,687	42	48,506	26	53,111										
Birbhum	08	20,406	29	25,870	17	19,461	01	18,250	...	20,413	02	21,450	14	27,544	05	35,161	82	27,834	78	37,420										
Bankura	24	34,066	18	43,610	04	31,735	01	25,769	07	44,760	67	37,929	121	84,463	91	36,839	47	40,378	28	46,685										
Midnapore	65	59,749	35	72,503	21	72,503	15	66,979	11	66,979	39	67,791	482	101,810	419	119,404	75	72,187	16	107,815										
Hooghly	28	20,601	13	21,437	15	24,334	05	21,959	03	22,523	39	24,216	67	26,681	22	28,023	13	28,902	03	28,754										
Howrah	50	19,080	24	21,616	18	21,072	03	19,369	14	20,257	65	22,501	73	25,018	37	28,498	15	23,963	05	24,863										
24-Parganas	32	51,563	06	51,943	08	48,761	04	43,068	05	43,653	34	43,356	73	79,953	50	77,035	15	75,403	05	76,301										
Calcutta	148	9,988	17	14,424	17	14,113	12	11,223	41	17,567	328	28,397	79	18,488	10	13,335	05	16,365	14	21,346										
Nadia	06	55,475	01	51,046	14	65,204	07	60,015	02	48,862	07	53,176	08	52,383	007	45,604	007	53,596	11	60,102										
Murshidabad	08	42,239	19	46,343	12	43,563	08	38,029	02	36,432	02	40,818	09	44,558	08	39,542	15	39,135	17	41,748										
Jessore	04	59,344	006	55,346	03	65,944	03	54,255	004	45,471	04	54,538	15	56,094	04	57,285	002	54,379	003	52,250										
Khulna	01	36,459	01	30,293	002	46,275	03	46,311	02	38,244	01	39,958	03	40,908	01	38,783	0007	32,871	003	37,386										
Rajshahi	002	36,983	001	43,957	01	48,789	18	46,065	03	39,950	02	47,828	02	50,750	02	49,819	14	53,170	02	49,475										
Dinajpur	01	44,451	01	52,164	01	42,851	01	43,687	01	35,510	01	34,311	51	47,745	56	57,319	13	41,001	22	41,376										
Jalpaiguri	02	18,395	004	21,867	02	22,112	04	17,620	03	19,548	24	21,440	17	21,899	15	22,972	62	25,470	89	23,287										
Darjeeling	02	20,041	03	21,867	02	22,112	04	19,271	06	19,548	38	33,638	29	31,899	05	31,983	004	13,983	03	16,032										
Rangpur	02	50,155	04	47,847	02	47,581	01	54,285	008	58,127	01	49,270	76	50,730	88	61,632	51	75,744	12	64,629										
Bogra	23	32,148	19	31,078	02	18,529	16	17,021	11	20,566	05	27,112	27	22,361	48	24,623	99	25,769	74	23,527										
Pabna	008	138,062	11	128,071	04	124,170	05	111,487	008	111,610	07	114,512	16	103,306	42	102,061	36	97,698	53	106,289										
Dacca	23	88,165	10	78,434	07	81,998	08	68,175	03	136,500	14	152,959	81	194,491	37	144,931	14	158,658	11	163,386										
Mymensingh	60	64,281	007	62,660	01	70,226	009	57,097	002	51,769	05	58,036	09	81,565	07	93,520	02	120,879	02	123,866										
Backergunge	18	77,906	01	78,434	01	70,226	009	54,684	0005	57,177	003	60,605	12	69,037	18	80,556	15	76,420	10	77,198										
Tippura	005	52,764	01	54,668	04	29,682	01	31,815	009	20,951	10	39,069	32	52,469	008	56,556	01	37,095	01	56,564										
Noakhali	009	43,570	004	43,570	05	28,395	04	55,848	03	48,629	01	60,312	01	68,994	01	56,165	...	63,003	02	78,428										
Chittagong Hill Tracts	65	35,595	110	46,356	60	43,056	06	38,522	06	36,349	36	26,792	121	49,023	264	45,039	94	37,552	25	37,699										
Patna	16	43,204	63	43,549	103	44,672	28	55,708	23	55,444	55	46,880	71	64,362	137	68,722	70	62,569	24	61,724										
Gaya	24	30,634	151	49,964	100	28,302	01	24,917	01	22,983	03	27,303	09	32,721	27	51,613	33	51,275	10	41,734										
Shahabad	02	76,681	12	58,969	41	65,051	35	55,660	16	69,114	19	58,651	16	60,106	28	52,534	47	57,673	20	58,025										
Saran	03	46,233	24	47,063	02	45,332	25	41,458	17	41,046	29	39,667	15	47,401	15	51,181	45	51,945	29	51,071										
Champanar	04	71,699	20	59,018	02	78,809	05	70,345	05	75,077	10	79,785	07	86,737	24	87,016	64	90,272	27	91,137										
Muzaffarpur	01	73,955	09	63,451	007	80,717	008	71,678	01	73,850	03	82,058	08	84,804	09	93,340	20	94,103	26	91,019										
Darbhanga	15	52,892	42	59,124	54	56,091	14	54,920	12	53,910	17	59,884	36	63,943	77	74,054	20	80,825	20	78,834										
Monghyr	08	60,192	14	61,146	15	71,027	02	59,169	23	64,146	46	70,970	33	72,818	19	78,319	16	75,477	16	76,681										
Bhagalpur	01	51,875	008	52,887	02	59,719	02	59,569	01	56,003	05	60,029	36	62,145	17	63,319	10	62,264	35	63,913										
Purnea	006	30,451	02	32,387	001	34,605	01	29,376	06	26,003	008	29,471	09	30,048	09	30,220	10	31,444	02	31,705										
Sonthal Parganas	04	56,529	08	57,817	69	53,727	10	48,755	06	48,755	03	60,237	22	67,808	111	77,250	23	77,250	11	77,781										
Cuttack	77	20,039	78	36,354	62	47,550	14	53,821	301	56,422	365	47,664	304	56,287	87	56,867	27	68,510	07	93,806										
Balasore	16	43,688	17	47,736	38	48,308	60	49,375	49	51,138	94	38,190	2005	41,731	107	42,865	25	25,824	09	45,918										
Angul	00	13,371	00	7,264	00	3,886	00	5,386	00	4,896	00	4,724	00	5,314	00	7,033	00	6,968	00	5,275										
Puri	27	22,933	114	26,982	408	33,533	446	19,614	373	22,841	184	15,124	105	23,512	68	57,406	64	49,129	119	39,884										
Tributary States of Orissa	00	23,418	00	20,205	00	28,577	00	28,494	00	27,399	00	38,277	00	42,511	00	40,092	00	43,678	00	55,977										
Hazaribagh	07	33,484	13	31,128	20	30,182	02	27,205	04	34,963	28	36,253	30	36,239	45	41,866	12	43,319	01	48,291										
Ranchi	003	33,710	02	33,222	10	39,079	06	39,581	20	43,236	47	43,800	06	38,946	13	42,937	16	44,726	03	47,208										
Palamanu	01	16,054	09	14,560	47	14,831	38	15,408	23	13,978	180	12,812	160	14,325	94	18,585	22	16,976	08	16,976										
Mambhum	01	28,792	03	32,540	08	34,021	003	29,672	02	33,770	10	36,546	65	37,294	164	49,670	67	40,119	009	46,896										
Singbhum	003	15,157	04	14,486	04	14,992	16	13,705	25	12,672	18	15,742	273	23,918	421	22,344	56	13,900	01	18,734										
Political States of Chota Nagpur	00	28,449	00	26,272	00	18,854	00	25,190	00	27,559	00	22,818	00	28,076	00	38,477	00	45,910	00	41,896										
Total	18	2,200,472	22	2,213,915	25	2,244,716	17	2,085,904	19	2,176,895	34	2,248,015	62	2,568,798	53	2,672,484	33	2,662,477	19	2,804,526										

* Not under registration.

OFFICE OF THE SAN. COMM. FOR BENGAL;

The 29th May 1905.

W. W. CLEMESHA, M.D., D.P.H.,

CAPTAIN, I.M.S.,

Offg. Sanitary Commissioner for Bengal.

STATEMENT No. VII—*Showing the protection afforded to infants in each Town in the Province of Bengal during the year 1904-05.*

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
BURDWAN	Burdwan	680	161	519	396	1st July 1883.
	Kalna	131	30	101	127	Ditto.
	Katwa	270	94	176	228	Ditto.
	Dainhat	226	42	184	215	Ditto.
	Raniganj	377	62	315	240	Ditto.
	Asansol	383	43	340	315	Not yet extended.
	Total ...	2,067	432	1,635	1,521	
BIRBHUM	Suri	226	41	185	137	1st July 1881.
BANKURA	Bankura	548	90	458	110	1st July 1883.
	Vishnupur	658	124	534	296	Ditto.
	Sonamukhi	490	111	379	149	6th June 1892.
	Total ...	1,696	325	1,371	555	
MIDNAPORE	Midnapore	1,128	261	867	304	1st July 1883.
	Ghatal	431	128	303	132	Ditto.
	Kharar	280	75	205	63	16th August 1889.
	Chandrakona	284	57	227	147	1st July 1883.
	Ramjibānpur	359	91	268	70	Ditto.
	Khirpai	146	36	110	94	Ditto.
	Tamluk	215	35	180	105	Ditto.
	Total ...	2,843	683	2,160	915	
HOOGHLY	Hooghly and Chinsura ...	847	239	608	453	1st September 1881.
	Bansberia	169	43	126	135	1st July 1883.
	Arambagh	215	47	168	152	11th February 1889.
	Serampore	936	209	727	148	1st March 1883.
	Uttarpara	178	33	145	95	1st April 1883.
	Kotrung	143	44	99	89	1st July 1883.
	Baidyabati	372	61	311	105	Ditto.
	Bhadreswar	292	77	215	75	Ditto.
	Total ...	3,152	753	2,399	1,252	
HOWRAH	Howrah	4,080	1,328	2,752	1,709	1st April 1882.
	Bally	317	98	219	313	1st October 1884.
	Ulubaria	91	10	81	60	Not yet extended.
	Total ...	4,488	1,436	3,052	2,082	
Total of the Burdwan Division.		14,472	3,670	10,802	6,462	
24-PARGANAS	Cossipore-Chitpur	503	72	431	681	1st October 1883.
	Manicktala	539	63	476	715	Ditto.
	South Suburban	819	173	646	1,014	Ditto.
	Tollygunge	373	72	301	411	Ditto. (It formerly formed a part of the South Suburban Municipality.)

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
24-PARGANAS— concl'd.	Garden Reach	564	102	462	659	1st October 1883. (It formerly formed a part of the South Suburban Municipality.)
	Budge-Budge	208	23	185	32	18th February 1902.
	Baranagar	443	96	347	181	1st October 1883.
	Kamarhati	401	94	307	233	Ditto. (It formerly formed a part of the Baranagar Municipality.)
	Rajpur	401	80	321	230	1st October 1883.
	Baruipur	55	9	46	93	Ditto.
	Jaynagar	214	48	166	125	Ditto.
	North Dum-Dum	169	44	125	...	Ditto.
	South Dum-Dum	303	59	244	57	Ditto.
	South Barrackpore	90	15	75	188	Ditto.
	Panihati	346	88	258	117	Ditto. (It formerly formed a part of the South Barrackpore Municipality.)
	North Barrackpore	217	39	178	264	1st October 1883.
	Titagarh	112	16	96	187	Ditto. (It formerly formed a part of the South Barrackpore Municipality.)
	Garulia	161	31	130	51	1st October 1883. (It formerly formed a part of the North Barrackpore Municipality.)
	Naihati	214	53	161	133	1st October 1883.
	Halisahar	299	59	240	139	Ditto. } (They formerly formed parts of the Naihati Municipality.)
	Bhatpara	449	85	364	149	Ditto.
	Barasat	176	40	136	146	Ditto.
	Gobardanga	149	39	110	74	Ditto.
	Basirhat	408	46	362	329	Ditto.
	Baduria	428	62	366	197	Ditto.
	Taki	140	33	107	174	Ditto.
	Total ...	8,181	1,541	6,640	6,579	
CALCUTTA	Calcutta	15,871	4,824	11,047	2,825	1880.
NADIA	Krishnagar	640	87	553	326	1st October 1883.
	Nadia	308	55	253	190	Ditto.
	Ranaghat	260	54	206	290	Ditto.
	Birnagar	79	25	54	48	Ditto.
	Santipur	1,180	235	945	455	Ditto.
	Chakdaha	168	34	134	100	28th January 1887.
	Kushtia	181	38	143	92	1st October 1883.
	Kumarkhali	139	43	96	98	Ditto.
	Meherpur	234	44	190	109	Ditto.
	Total ...	3,189	615	2,574	1,708	
MURSHIDABAD	Berhampore	679	224	455	164	Ditto.
	Murshidabad	503	144	359	98	Ditto.
	Azimganj	315	118	197	124	Ditto. (It formerly formed a part of the Murshidabad Municipality.)
	Kandi	456	90	366	141	1st October 1883.
	Jangipur	412	91	321	280	Ditto.
	Total ...	2,365	667	1,698	807	

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the number who have died as shown in column 4	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
JESSORE	Jessore	75	9	66	87	1st October 1883.
	Kotchandpur	251	70	181	174	1st February 1884.
	Maheshpur	141	45	96	50	1st October 1883.
	Total ...	467	124	343	311	
KHULNA	Khulna	246	47	199	150	1st July 1887.
	Satkhira	189	32	157	148	7th July 1883
	Debhatta	245	44	201	117	1st October 1883.
	Total ...	680	123	557	415	
Total of the Presidency Division.		30,753	7,894	22,859	12,645	
RAJSHAHI	Rampur Boalia	644	132	512	640	1st June 1881.
	Nator	242	90	152	67	1st January 1881.
	Total ...	886	222	664	707	
DINAJPUR	Dinajpur	307	46	261	58	1st January 1887.
JALPAIGURI	Jalpaiguri	211	30	181	101	Ditto.
DARJEELING	Darjeeling	301	71	230	202	1st September 1884.
	Kurseong	198	38	160	222	1st January 1887.
	Total ...	499	109	390	424	
RANGPUR	Rangpur	207	56	151	195	1st July 1881.
BOGRA	Bogra	202	33	169	54	1st January 1882.
	Sherpur	124	36	88	62	1st October 1884.
	Total ...	326	69	257	116	
PABNA	Pabna	317	62	255	252	1st February 1882.
	Sirajganj	647	80	567	243	1st January 1887.
	Total ...	964	142	822	495	
Total of the Rajshahi Division		3,400	674	2,726	2,096	
DACCA	Dacca	2,922	761	2,161	762	1st July 1887.
	Narayanganj	646	148	498	317	Ditto.
	Total ...	3,568	909	2,659	1,079	
MYMENSINGH	Nasirabad	132	25	107	4	1st October 1887.
	Muktagacha	101	12	89	5	Ditto.
	Netrokona	268	38	230	38	20th January 1890.

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
MYMENSING —concl'd.	Jamalpur	688	132	556	411	1st October 1887.
	Sherpur	472	72	400	237	Ditto.
	Kishorganj	452	93	359	39	Ditto.
	Bajitpur	350	57	293	146	Ditto.
	Tangail	311	107	204	19	19th February 1890.
	Total ...	2,774	536	2,238	991	
FARIDPUR	Faridpur	320	67	253	152	1st October 1887.
	Madaripur	519	59	460	198	Ditto.
	Total ...	839	126	713	350	
BACKERGUNGE...	Barisal	288	59	229	34	Ditto.
	Jhalakati	8	5	3	8	Ditto.
	Nalchiti	17	6	11	6	Ditto.
	Pirozpur	261	42	219	170	21st January 1890.
	Patuakhali	122	27	95	101	25th January 1894
	Total ...	696	139	557	319	
	Total of the Dacca Division ...	7,877	1,710	6,167	2,739	
TIPPERA ...	Comilla	322	51	271	241	1st April 1887.
	Brahmanbaria	628	127	501	393	Ditto.
	Chandpur	176	15	161	63	22nd July 1898.
	Total ...	1,126	193	933	697	
NOAKHALI	Sudharam	209	36	173	48	1st April 1887.
CHITTAGONG	Chittagong	290	73	217	98	1st April 1887.
	Cox's Bazar	90	10	80	30	14th November 1 2.
	Total ...	380	83	297	128	
	Total of the Chittagong Division.	1,715	312	1,403	873	
PATNA ...	Patna	4,442	1,304	3,138	2,073	1st October 1884.
	Bihar	1,802	345	1,457	1,273	1st April 1887.
	Dinapore	780	190	590	583	28th January 1891.
	Barh	347	101	246	202	1st April 1887.
	Total ...	7,371	1,940	5,431	4,136	
GAYA ...	Gaya	2,299	768	1,531	1,153	1st January 1883.
	Tikari	312	67	245	148	3rd January 1891.
	Daudnagar	355	90	265	245	Ditto.
	Total ...	2,966	925	2,041	1,546	

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
SHAHABAD	Arrah	1,257	211	1,046	551	20th July 1885.
	Buxar	535	77	458	351	1st April 1887.
	Dumraon	466	76	390	200	Ditto.
	Jagadispur	465	105	360	81	20th December 1890.
	Sasaram	955	194	761	259	1st April 1887.
	Bhabhua	232	54	178	181	Ditto.
	Total ...	3,910	717	3,193	1,623	
SARAN ...	Chapra	1,651	427	1,224	562	Ditto.
	Revelganj	461	106	355	260	12th December 1890.
	Siwan	508	78	430	425	1st April 1887.
	Total ...	2,620	611	2,009	1,247	
CHAMPARAN	Bettiah	902	227	675	750	Ditto.
	Motihari	459	121	338	344	Ditto.
	Total ...	1,361	348	1,013	1,094	
MUZAFFARPUR ...	Muzaffarpur	1,471	369	1,102	556	1st January 1886.
	Sitamarhi	359	82	277	264	1st April 1887.
	Hajipur	942	227	715	459	1st May 1890.
	Lalganj	463	142	321	166	1st April 1887.
	Total ...	3,235	820	2,415	1,445	
DARBHANGA ...	Darbhangha	2,309	464	1,845	1,411	Date of Notification—24th May 1884.
	Roserah	434	108	326	204	3rd January 1891.
	Samastipur	340	66	274	39	Not yet extended.
	Madhubani	623	124	499	181	1st April 1887.
	Total ...	3,706	762	2,944	1,835	
Total of the Patna Division		25,169	6,123	19,046	12,926	
MONGHYR	Monghyr	1,796	450	1,346	798	15th November 1882.
	Jamalpur	1,143	276	867	585	Ditto.
	Total ...	2,939	726	2,213	1,383	
BHAGALPUR	Bhagalpur	2,041	397	1,644	1,889	15th February 1884—Withdrawn on 16th October 1895. Re-extended on 18th August 1898.
	Colgong	143	63	80	27	15th February 1884—Withdrawn on 16th October 1895. Re-extended on 19th December 1901.
	Total ...	2,184	460	1,724	1,916	
PUENEA ...	Purnea	351	98	253	143	1st July 1887.
	Kishanganj	159	51	108	66	12th November 1892.
	Total ...	510	149	361	209	

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
MALDA	English Bazar	551	84	467	307	1st March 1883.
	Malda	94	22	72	49	1st April 1887.
	Nawabganj	701	84	617	37	12th May 1904.
	Total ...	1,346	190	1,156	393	
SONTHAL PAR- GANAS.	Sahibganj	450	87	363	333	1st May 1884.
	Deoghur	237	37	200	111	Ditto.
	Dumka	303	47	256	55	Not yet extended.
	Total ...	990	171	819	499	
	Total of the Bhagalpur Division.	7,969	1,696	6,273	4,400	
CUTTACK	Cuttack	1,547	313	1,234	835	1st September 1884.
	Kendrapara	545	124	421	324	7th February 1888.
	Jajpur	416	84	332	228	Ditto.
	Total ...	2,508	521	1,987	1,387	
BALASORE	Balasore	531	90	441	434	Ditto.
PURI	Puri	649	172	477	490	Ditto.
	Total of the Orissa Division ...	3,688	783	2,905	2,311	
HAZARIBAGH	Hazaribagh	790	171	619	630	1st January 1885.
	Chatra	465	98	367	261	1st August 1885.
	Giridih	306	55	251	33	Not yet extended.
	Total ...	1,561	324	1,237	924	
RANCHI	Ranchi	488	62	426	309	1st April 1887.
	Lohardaga	271	40	231	134	25th June 1892.
	Total ...	759	102	657	443	
PALAMAU	Daltonganj	239	52	187	152	9th October 1890.
MANBHAM	Purulia	503	64	439	387	1st January 1887.
	Raghunathpur	106	8	98	102	19th February 1894.
	Jhalda	158	21	137	125	9th July 1892.
	Total ...	767	93	674	614	
SINGBHRUM	Chaibassa	321	54	267	309	20th June 1892.
	Total of the Chota Nagpur Division.	3,647	625	3,022	2,442	
	Total for the Province ...	98,690	23,487	75,203	46,894	

OFFICE OF THE SANIT. COMM. FOR BENGAL; }
The 29th May 1905.

W. W. CLEMESHA, M.D., D.P.H.,
CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner for Bengal.

PROVINCIAL STATEMENT A—Showing the degree of protection afforded to infants during the year 1904-1905.

DISTRICT.	Population among which vaccinations were performed.	Estimated birth at 42·59 per 1,000 of population (being the actual birth-rate for the province during 1904).	Mortality among infants under one year.	Surviving population under one year available for vaccination.	Number successfully vaccinated.	Proportion of persons successfully vaccinated per 1,000 of population as shown in column 5.	Proportion of persons successfully vaccinated per 1,000 of population in 1901-1902 (the last year of the previous triennial period).	REMARKS.
1	2	3	4	5	6	7	8	9
Ranchi	1,157,992	49,319	8,925	40,394	36,551	904·86	510·75	
Palamau	613,763	26,140	7,282	18,858	14,627	775·63	331·39	
Malda	854,247	36,382	7,318	29,064	22,346	768·85	553·71	
Faridpur	1,913,621	81,501	18,611	62,890	46,833	744·68	156·89	
Hazaribagh	1,142,130	48,643	10,777	37,866	25,861	682·96	241·93	
Political States of Chota Nagpur.	1,001,429	42,651	7,953*	34,693	22,686	653·90	427·81	
Purnea	1,853,116	78,924	14,967	63,957	40,584	634·55	380·04	
Bhagalpur	2,007,455	85,498	12,861	72,637	46,071	634·26	517·71	
Manbhum	1,275,025	54,303	8,643	45,660	28,542	625·09	319·55	
Darjeeling	227,724	9,699	1,669	8,030	4,889	608·84	750·37	
Sonthal Parganas	1,788,015	76,152	11,527	64,625	36,875	570·59	371·42	
Jalpaiguri	777,672	33,121	7,306	25,815	13,068	506·21	322·36	
Khulna	1,226,782	52,249	12,083	40,166	19,353	481·82	399·38	
Darbhanga	2,809,219	119,645	15,116	104,529	50,193	480·18	410·30	
Gaya	1,972,464	84,007	19,458	64,549	30,895	478·62	282·32	
Burdwan	1,445,747	61,573	12,167	49,406	22,957	464·66	177·15	
Rangpur	2,133,221	91,067	20,784	70,283	29,925	425·77	159·50	
Midnapore	2,699,238	114,961	18,941	96,020	40,720	424·07	179·05	
Rajshahi	1,432,164	60,995	14,130	46,865	19,565	417·47	237·20	
Noakhali	1,135,208	48,349	8,019	40,330	16,257	403·09	175·36	
24 Parganas	1,680,229	71,561	10,607	60,954	24,413	400·51	342·96	
Monghyr	2,015,223	85,828	15,631	70,197	28,107	400·40	195·45	
Angul	191,911	8,174	1,525*	6,649	2,623	394·49	263·31	
Muzaffarpur	2,066,735	113,576	22,322	91,254	34,176	374·51	101·29	
Pabna	1,378,923	58,728	10,555	48,173	18,000	373·65	321·73	
Nadia	1,572,136	66,957	15,020	51,937	19,100	367·75	189·36	
Backergunge	2,246,178	95,665	21,968	73,697	25,200	341·94	218·07	
Bankura	1,063,136	45,279	7,746	37,533	11,882	316·57	282·56	
Jessore	1,791,856	76,315	13,787	62,528	19,408	310·38	264·89	
Bogra	843,335	35,918	7,185	28,733	8,874	308·84	81·30	
Hooghly	915,390	38,987	7,282	31,705	8,958	282·54	125·58	
Singbhum	604,926	25,764	3,285	22,479	6,285	279·59	116·26	
Chittagong	1,327,265	56,528	8,600	47,928	13,375	279·16	191·06	
Champaran	1,752,037	74,619	14,493	60,126	16,249	271·08	155·00	
Howrah	668,863	28,487	4,866	23,621	6,354	268·99	142·18	
Dinaipur	1,553,650	66,170	16,445	49,725	12,468	250·73	187·21	
Birbhum	893,588	38,058	7,252	30,806	7,579	246·02	246·09	
Dacca	2,529,421	107,728	19,361	88,367	20,938	236·94	197·06	
Patna	1,399,274	59,594	15,053	44,541	9,878	221·77	197·69	
Mymensingh	3,809,671	162,254	27,014	135,240	29,859	220·78	169·15	
Murshidabad	1,257,277	53,548	11,854	41,694	9,202	220·70	148·66	
Cuttack	1,984,038	84,500	18,810	65,690	14,365	218·67	108·37	
Chittagong Hill Tracts	124,762	5,314	991*	4,323	910	210·50	210·09	
Shahabad	1,844,590	78,561	19,890	58,671	11,965	203·93	136·59	
Saran	2,333,087	99,579	18,818	80,761	16,378	202·79	182·72	
Balasore	1,050,317	44,733	9,754	34,979	6,962	199·03	94·45	
Tributary States of Orissa.	1,947,802	82,957	15,480*	67,477	12,843	190·33	109·53	
Tippera	2,069,545	88,142	14,180	73,962	13,783	186·35	88·73	
Puri	967,950	41,225	8,630	32,595	2,706	83·01	26·90	
Total of Rural areas	73,959,347	3,149,928	606,946	2,542,982	981,688	386·03	231·92	
Calcutta, including A. V. Depôt.	847,796	36,109	4,824	31,285	2,825	90·29	99·25	
Mufassal Municipalities, dispensaries, etc.	2,886,954	122,955	18,663	104,292	45,035	431·81	344·74	
GRAND TOTAL ...	77,694,097	3,308,992	630,433	2,678,559	1,029,548	384·36	234·59	

* Registration of births and deaths is not carried on in these places. The number of deaths among infants in them has been calculated at the rate of infant mortality obtaining in this province during 1904.

OFFICE OF THE SANY. COMM. FOR
BENGAL,
The 29th May 1905.

W. W. CLEMESHA, M.D., D.P.H.,
CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner for Bengal.

PROVINCIAL STATEMENT B—Showing the different kinds of

DISTRICTS.	PRIMARY VACCINATIONS.														
	Direct from the calf.					With lanoline lymph.					Arm-to-arm vaccination.				
	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Burdwan	3,158	3,139	4	15	99'39	8,273	8,057	119	97	97'38	40,961	40,847	84	80	99'72
Birbhum	357	357	...	...	100	6,729	6,618	102	9	98'35	29,840	29,790	37	13	99'83
Bankura ... ..	...	...	...	...	...	9,539	9,408	128	3	98'62	34,995	34,568	413	14	98'77
Midnapore	47,768	47,356	246	166	99'13	5,631	5,479	97	55	97'30	54,049	53,462	390	197	98'91
Hooghly	384	382	2	...	99'47	5,012	4,859	128	25	96'94	23,346	23,091	214	41	98'90
Howrah	2,589	2,582	2	5	99'72	6,239	6,113	68	58	97'98	16,071	15,993	42	36	99'51
24 Parganas ... ..	...	...	...	...	...	31,508	31,260	241	7	99'21	45,027	44,843	164	20	99'59
Calcutta	2	2	...	...	100	20,281*	18,050	1,431	800	88'99	...	...	...	...	...
Calcutta and A. V. Depôt	291	286	...	5	98'28	...	...	...	...	...	...	...	...	...	...
Nadia ... ..	...	...	...	...	...	3,396	3,324	60	12	97'88	56,145	55,724	222	199	99'25
Murshidabad	3,839	3,819	11	9	99'47	2,403	2,311	71	21	96'17	35,301	35,008	107	186	99'17
Jessore	561	559	2	...	99'64	2,606	2,594	7	5	99'54	48,833	48,508	294	36	99'32
Khulna	2,032	2,024	7	1	99'60	1,518	1,518	...	...	100*	33,840	33,738	85	17	99'69
Rajshahi	26,623	26,563	20	40	99'77	950	892	58	...	93'89	21,566	21,502	18	46	99'79
Dinaipur	34,366	34,077	260	29	99'15	164	157	7	...	95'73	...	...	...	...	...
Jalpaiguri	1,129	1,118	10	1	99'02	432	355	75	2	82'17	21,596	21,365	172	59	98'93
Darjeeling	77	77	...	...	100*	6,521	6,171	153	197	94'63	7,992	7,972	6	14	99'74
Rangpur ... ..	...	...	...	...	...	1,279	556	721	2	43'47	61,672	60,866	526	280	98'69
Bogra	6,616	6,580	36	...	99'45	942	835	86	21	88'64	15,245	15,097	143	5	99'02
Pabna	1,862	1,827	26	9	98'12	5,660	5,147	483	30	90'93	36,336	35,469	560	307	97'61
Dacca	20,899	20,561	161	177	98'38	10,512	9,998	368	146	95'11	72,230	71,047	643	540	98'36
Mymensingh... ..	20,145	19,835	243	67	98'46	5,050	4,793	193	64	94'91	141,325	137,444	2,163	1,728	97'25
Faridpur ... ..	...	...	...	...	...	58,166	57,676	399	91	99'15	65,635	65,391	171	73	99'62
Backergunge	379	324	55	...	85'48	23,120	20,239	1,825	1,056	87'53	111,841	106,490	2,326	3,025	95'21
Tipperra	393	367	25	1	93'38	4,521	4,349	122	50	96'19	72,811	72,061	436	314	98'96
Noakhali	278	272	6	...	97'84	8,966	8,562	250	154	95'49	49,033	47,662	1,063	308	97'20
Chittagong ... ..	...	...	...	...	...	7,322	7,059	172	91	96'40	71,886	71,149	489	243	98'97
Chittagong Hill Tracts	...	...	...	...	...	133	133	...	...	100*	5,903	5,756	128	19	97'50
Patna	790	765	9	16	96'83	1,872	1,706	129	37	91'13	35,386	35,002	183	201	98'91
Gaya ... ..	...	...	...	...	...	1,971	1,830	93	48	92'84	61,599	59,448	1,693	453	96'50
Shahabad	7	6	1	...	85'71	3,293	3,229	56	8	98'05	38,538	38,166	245	127	99'03
Saran ... ..	...	...	...	...	...	1,589	1,212	168	209	76'27	55,035	51,937	902	2,196	94'37
Champaran ... ..	...	...	...	...	...	1,466	1,216	174	76	82'94	49,950	49,656	95	199	99'41
Muzaffarpur ... ..	...	...	...	...	...	1,638	1,572	116	...	93'12	89,513	89,126	370	17	99'56
Darbhanga ... ..	...	...	...	...	...	1,817	1,515	299	3	83'37	89,421	89,100	289	32	99'64
Monghyr ... ..	...	...	...	...	...	1,179	1,149	18	12	97'45	77,293	77,229	25	39	99'91
Bhagalpur ... ..	...	...	...	...	...	285	179	100	6	62'80	75,304	75,233	68	3	99'90
Purnea	25	25	...	...	100*	1,102	957	134	11	86'84	64,375	62,542	1,812	21	97'15
Malda	1,878	1,839	36	3	97'92	1,079	964	109	6	89'34	29,353	28,670	565	118	97'67
Southal Parganas	16,194	16,145	46	3	99'69	357	324	33	...	90'75	53,673	53,226	236	211	99'16
Cuttack	1,916	1,890	26	...	98'64	79,680	76,117	2,120	1,443	95'52	15,530	15,035	299	196	96'81
Balasore	1,344	1,327	11	6	98'73	8,275	8,022	217	36	96'94	35,634	35,098	484	52	98'49
Angul ... ..	...	...	...	...	...	5,220	4,767	286	167	91'32	85	82	3	...	96'47
Puri ... ..	...	...	...	...	...	41,005	39,869	877	259	97'22	...	...	...	...	...
Tributary States of Orissa	...	...	...	...	...	31,146	30,082	744	320	96'58	25,576	25,306	164	106	98'94
Hazaribagh ... ..	...	...	...	...	...	239	275	14	...	95'15	47,738	47,696	41	1	99'91
Ranchi	12,879	12,858	...	21	99'83	5	5	...	...	100	34,055	33,900	37	118	99'54
Palamau	7,669	7,573	84	12	98'74	...	...	...	...	...	9,498	9,282	181	35	97'72
Manbhum ... ..	...	...	...	...	...	590	462	114	14	78'30	46,068	46,034	31	3	99'92
Singbhum	70	70	...	...	100	241	233	8	...	96'68	17,470	17,290	108	72	98'96
Political States of Chota Nagpur.	...	...	...	...	...	135	89	46	...	65'92	35,751	35,557	132	62	99'45
Total	216,520	214,605	1,329	586	99'11	421,157	402,287	13,219	5,651	95'51	2,160,329	2,129,458	18,849	12,022	98'57

* All these operations with the exception of seven were

OFFICE OF THE SANITARY COMMISSIONER FOR BENGAL,)
The 29th May 1905.)

Lymph used and their rates of success during the year 1904-1905.

RE-VACCINATIONS.														
Direct from the calf.					With lanoline lymph.					Arm-to-arm vaccination.				
Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
45	36	5	4	80'00	1,512	974	444	94	64'41	132	58	67	7	43'93
...	...	...	...	...	866	539	306	21	62'24	196	116	37	43	59'18
...	...	...	...	...	1,341	334	960	47	24'90	7,835	2,375	5,451	9	30'31
1,191	768	327	96	64'48	684	401	275	8	58'62	496	349	118	29	70'36
5	1	4	...	20'00	234	69	110	55	29'48	644	352	292	...	54'65
...	...	...	...	...	397	151	207	39	38'03	93	24	55	14	25'80
...	...	...	...	...	521	194	321	6	37'23	15	4	11	...	26'66
1	1	...	...	100'	4,076*	1,874	1,823	379	45'97	...	...	...	...	...
3,401	1,133	1,404	864	33'31	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	1,135	893	206	36	78'67	185	161	23	1	87'02
147	73	70	4	49'66	559	376	131	52	67'26	207	161	40	6	77'77
6	2	4	...	33'33	836	570	184	82	68'18	20	17	3	...	85'00
49	22	27	...	44'89	93	28	60	5	30'10	158	56	90	12	35'44
737	464	269	4	62'95	...	...	...	...	...	54	54	...	...	100'
7,701	6,919	643	139	89'84	317	223	94	...	70'34	...	...	...	...	...
63	43	20	...	68'25	727	363	320	39	50'61	63	38	25	...	60'32
...	...	...	...	...	2,131	1,223	635	273	57'39	874	589	275	10	67'39
...	...	...	...	...	2,404	907	1,352	145	37'72	2,554	2,300	254	...	90'05
18	7	11	...	38'88	1,096	346	673	77	31'57	963	462	494	7	47'97
33	9	21	3	27'27	1,193	397	785	11	33'27	861	111	653	97	12'89
1,805	936	844	25	51'85	3,005	1,436	1,487	82	47'79	5,499	2,311	2,757	431	42'02
19	11	4	4	57'89	856	575	235	46	67'17	1,180	728	337	115	61'69
...	...	...	...	...	1,477	799	584	94	54'09	...	...	...	...	...
...	...	...	...	...	362	92	212	58	25'41	...	33	...	24	27'27
39	38	1	...	97'43	72	39	31	2	54'16	405	344	55	6	84'93
...	...	...	...	...	203	68	123	12	33'49	...	...	...	...	...
...	...	...	...	...	371	179	112	80	48'24	104	41	59	4	39'42
...
20	17	3	...	85'00	369	175	152	42	47'42	151	34	117	...	22'51
...	...	...	...	...	631	357	188	86	56'57	248	89	96	63	35'88
...	...	...	...	...	247	155	55	37	62'75	270	178	49	43	65'92
...	...	...	...	...	50	22	13	15	44'00	729	455	138	136	62'41
...	...	...	...	...	216	174	42	...	80'55	29	25	4	...	86'20
...	...	...	...	...	634	427	207	...	67'35	65	12	53	...	18'46
...	...	...	...	...	2	...	2	...	...	540	404	127	9	74'81
...	...	...	...	...	659	382	175	102	57'96	102	74	28	...	72'54
...	...	...	...	...	1,926	1,066	717	143	55'34	231	203	15	13	87'87
...	...	...	...	...	1,289	292	982	15	22'65	254	97	157	...	38'18
46	36	10	...	78'26	344	137	182	25	39'82	77	59	16	2	76'62
6,432	4,423	1,898	111	68'76	224	102	122	...	45'53	5,797	3,661	2,119	117	61'42
83	78	1	4	93'97	942	694	39	219	72'61	2	2	...	...	100'
...	...	...	...	...	782	571	93	118	73'01	...	...	...	...	...
...	...	...	...	...	439	391	28	20	89'06	51	35	...	16	68'62
...	...	...	...	...	24	15	7	2	62'50	...	...	...	...	...
...	...	...	...	...	598	508	35	55	84'95	91	81	10	...	89'01
...	...	...	...	...	499	303	191	5	60'72	17	17	...	...	100'
...	...	...	...	...	...	...	...	...	...	960	445	505	...	46'84
85	77	8	...	90'58	...	...	...	...	...	58	44	12	2	75'86
...	...	...	...	...	823	317	311	195	38'51	136	83	53	...	61'02
...	...	...	...	...	552	402	107	43	72'82	846	739	104	3	87'35
...	...	...	...	...	...	...	...	...	...	7,042	6,250	605	187	88'75
21,926	15,094	5,574	1,258	68'84	37,718	19,535	15,318	2,865	51'79	40,257	23,547	15,328	1,382	58'49

performed with glycerized lymph.

W. W. CLEMESHA, M.D., D.P.H.,
CAPTAIN, I.M.S.,
Offg. Sanitary Commissioner for Bengal.

MUNICIPAL DEPARTMENT.

SANITATION.

DARJEELING, THE 26TH JULY 1905.

RESOLUTION No. 1824T.—M.

READ—

The Triennial Report on Vaccination in Bengal for the years 1902-1903, 1903-1904, and 1904-1905.

Read also—

The Annual Statistical Returns and Short Notes on Vaccination in Bengal for the years 1902-1903 and 1903-1904.

The number of vaccinators has remained almost unchanged since 1888, but each man now performs on the average 50 per cent. more operations than he did at that time. The improvement in this respect has been continuous. The average number of operations performed in each year of the triennium under review was 2,809,506, or 978 per vaccinator, as compared with 2,420,552, or 834 per vaccinator, during the previous three years. Less than 5 per cent. of the total number of operations consist of revaccinations. According to the returns nearly two-fifths of the total infant population of the Province was vaccinated in 1904-1905. The improvement which has taken place in the period under review is confined to rural areas. There has been a falling off in Municipalities, especially in Calcutta, where only one-quarter of the infant population was protected by vaccination in 1904-1905. This is most unsatisfactory, and the Sanitary Commissioner should give the matter his close personal attention during the coming season.

2. There are marked variations in the amount of work done in different parts of the Province. In the Dacca and Chittagong Divisions there were respectively 48 and 46 vaccinations per thousand of the population in 1904-1905; in the Burdwan, Bhagalpur, Orissa and Chota Nagpur Divisions the number ranged from 36 to 38; while in the Presidency Division it was only 32, in Rajshahi 30 and in Patna 27 per mille. Of individual districts the best results were obtained in Faridpur and Darjeeling (63 and 62 per mille respectively); and the worst in Patna, Saran and Shahabad (from 21 to 22 per mille). There is no correlation between the number of operations and the varying prevalence of small-pox; and the greatest success has been attained in the tracts which are least afflicted by that scourge. The Sanitary Commissioner is of opinion that an epidemic of small-pox leads to a larger number of vaccinations; but although such a result might be anticipated, it is not borne out by the statistics; nor are the figures to be explained by the reputed attitude of the people towards vaccination. The Ferazis of East Bengal are said to be exceptionally hostile, but this is precisely the part of the Province where the greatest success has been attained. The backward state of the work in Shahabad is attributed to the character of the people; but it is almost equally backward in Patna, where the inhabitants are supposed to be less obstructive.

3. The real factors affecting the results are doubtless the efficiency of the staff, the degree of supervision exercised by the Civil Surgeons and the officers of the Sanitary Department, and the interest taken in the work by District Officers. The Lieutenant-Governor notices that the improvement which took place last year in Midnapore, Cuttack and Noakhali is attributed to the active co-operation of the District Officers; while that in the Tributary States of Orissa is accounted for by the supervision exercised by one of the Deputy Sanitary Commissioners. The Sanitary Department is now at its full strength for the first time for some years; and Sir Andrew Fraser hopes that this will lead to a marked improvement in the outturn in the more backward

7disicts. District Officers will again be asked to do what they can during their tours to promote the cause of vaccination by enlisting the sympathy of the people with whom they may come in contact and by taking a personal interest in the work done by the vaccinators.

4. The question of making the vaccinating staff more efficient has recently engaged the attention of the Lieutenant-Governor. Proposals for raising the status of the inspecting officers have been submitted to the Government of India, and a system of rewards to vaccinators has been introduced. A scheme for the better training of the vaccinators and inspecting staff and for the more extended use of calf lymph is under consideration.

By order of the Lieutenant-Governor of Bengal,

E. A. GAIT,

Offg. Secretary to the Govt. of Bengal.

Circular No. 33T.—M.

COPY, with a copy of the Report, forwarded to all Commissioners of Divisions, for information and communication to all District Officers, with special reference to the remarks contained in paragraph 3 of the Resolution.

No. 1825T.—M.

COPY forwarded to the Sanitary Commissioner, Bengal, for information. His attention is specially drawn to paragraph 1 of the Resolution.

No. 1826T.—M.

COPY, with a copy of the Report, forwarded to the Inspector-General of Civil Hospitals, Bengal, for information.

No. 1827T.—M.

COPY, with a copy of the Report, forwarded to the Secretary to the Sanitary Board, for information.

By order of the Lieutenant-Governor of Bengal,

G. RAINY,

Under-Secretary to the Govt. of Bengal.

DARJEELING,
The 26th July 1905.

